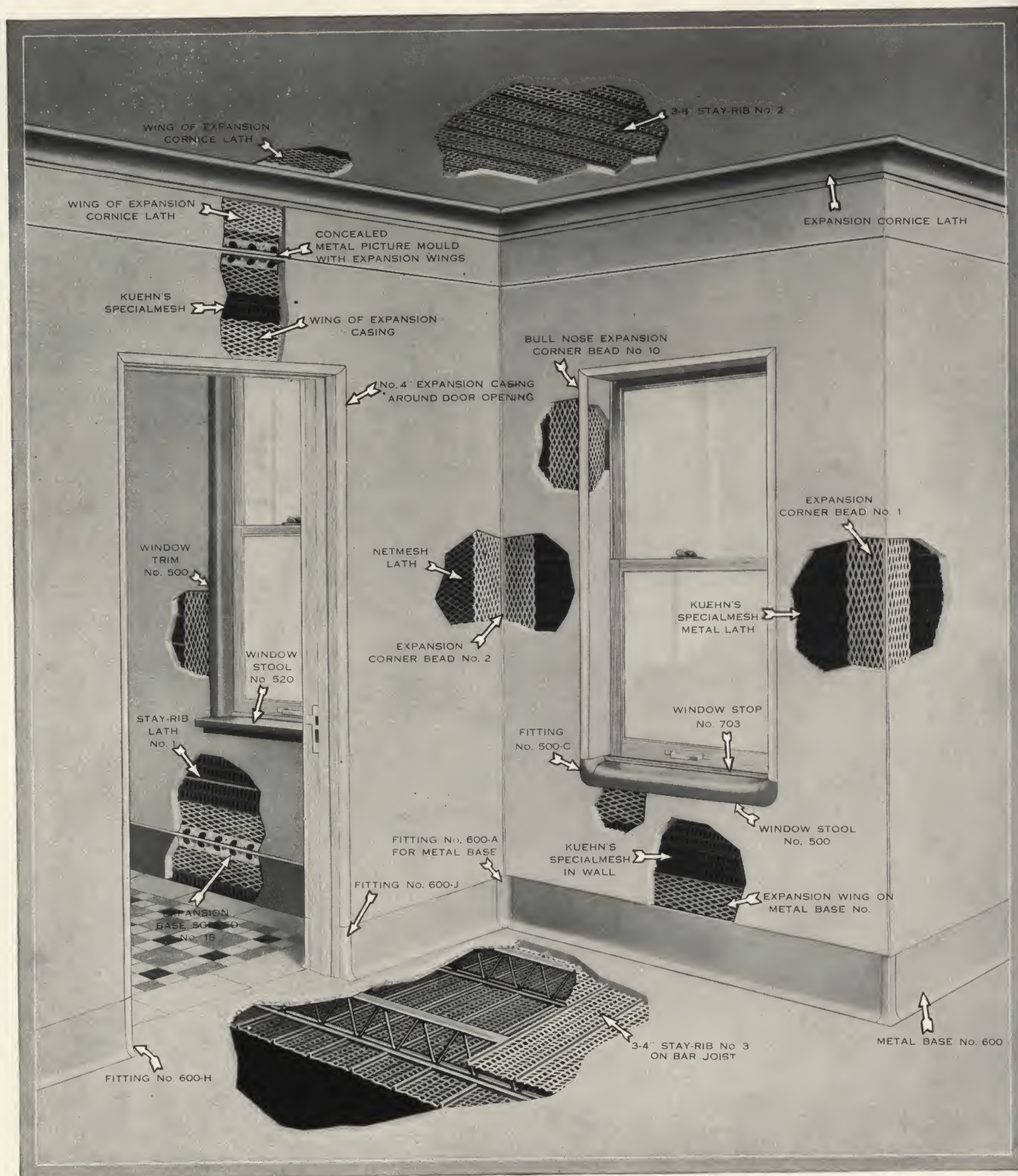




# MILCOR MANUAL

FIREPROOF BUILDING PRODUCTS

.. M I L C O R S T E E L C O M P A N Y ..



Milcor fireproof construction, as illustrated here, makes walls so strong, corners, doorways and arches so firmly united that every part of the building is held together as a unit and consequently no settling cracks can appear. Everything considered, there is no other plaster base that has all the advantages of Metal Lath, and no other Metal Trim or Corner Bead that can equal the superior building qualities of Milcor Expansion products. The illustration shows a typical interior embodying all types of Milcor Metal Lath, Expansion Corner Bead, Casing,

Window Stools, Metal Base and accessory products. By referring to the illustration, one may understand more clearly how many of the fireproof construction materials, shown on the following pages, may be used to advantage.

Plastering is one of the most important factors in the construction of any building. Milcor Metal Lath and allied products insure fire-safeness, freedom from dust streaks, elimination of plaster cracks and the most enduring and satisfactory construction available.

# MILCOR STEEL COMPANY

Send Inquiries to So. 41st & W. Burnham Sts., Milwaukee, Wis.

MILWAUKEE, WIS.

CHICAGO, ILL.

KANSAS CITY, MO.

CANTON, OHIO

LA CROSSE, WIS.

## METAL LATH AND ACCESSORIES METAL CASINGS, TRIM, BASES, ETC.

### The Company

The Milcor Steel Company is the foremost national manufacturer of "Firesafe" sheet metal products, largely consumed by the building industry. Constant improvement in design, materials, workmanship, and methods of production has marked the company's progress, until today Milcor Products are accepted nationally as standards of quality.

### Diversified Line of Products

In addition to the line of Metal Lath, Plastering Accessories and Metal Trim, including Casings, Stools, Metal Bases, etc., described in this catalogue, the Milcor Steel Company is among the largest manufacturers making a complete line of Metal building products.

### Manufacturing and Distributing Facilities

The Milcor Steel Company's plants consist of over a million (1,000,000) square feet of floor space and its properties cover forty (40) acres of land. In addition to its main comparatively new plants in Milwaukee, Wisconsin, and Canton, Ohio, equipped

with modern machines, there are plants in Chicago, Illinois, Kansas City, Missouri, and La Crosse, Wisconsin. Sales offices are maintained in all principal centers.

### Catalogues Available

(Size 8½x11 inches to fit filing cabinet.)

No. 20-F "The Milcor Manual"—a complete catalogue on Metal Lath and allied products, including standard architectural specifications for Firesafe construction.

No. 24-A "Milcor Architectural Sheet Metal Guide"—a complete catalogue on Roofing, Cornices, Architectural Ornaments, Ventilators, Skylights, etc.

No. 28 "Milcor Sheet Metal Hand Book"—a large catalogue on general sheet metal products manufactured by the Milcor Steel Company.

No. 33-C "Milcor Steel Ceilings and Walls" contains many designs of "Perfect-fit" Ceilings and Walls manufactured by the Canton, Ohio, Plant.

No. 35 "Milcor Furnace Pipe and Fittings."

No. 36 "Milcor Metal Ceilings and Walls"—illustrating and describing many of the attractive designs of Milcor Metal Ceilings and Walls.

No. 100-B "Milcor Metal Bases and Window Stools with Expansion Wings."

Partition Handbook—Shows methods of construction of solid Partitions.

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# Milcor Products — Special Features

## GENERAL DESCRIPTION

### Foreword

A careful analysis of the design, materials, and workmanship found in Milcor Products cannot help but impress the most discriminating architect with their exceptionally high quality. Many of the outstanding features are covered by patents and the products which include them are marketed all over the United States. The line is complete.

For the sake of brevity and to avoid needless repetition, following are detailed descriptions and specifications of outstanding features, materials and processes of manufacture which apply to the various Milcor Products hereafter briefed only in the specific description of the particular item.

### Expansion Wing Feature

One of the outstanding features of Milcor Lathing Accessories, protected by patent is the expanded metal lath wing which forms an integral part of the corner bead, picture mould, base screed, metal casing, and other products, as illustrated on pages 17 to 35. The wings of various widths are formed of  $\frac{3}{8}$ -inch diamond mesh expanded metal lath.

The advantages over the older types of plastering accessories are apparent:

(1) The network of the expanded metal wings assures keying of the plaster close up to the base of the exposed metal member.

(2) There is a definite economy in labor due to the simplicity of erection—these products can be wired, stapled, nailed or spotted, as best adapted to the particular type of wall construction, without the use of clips.

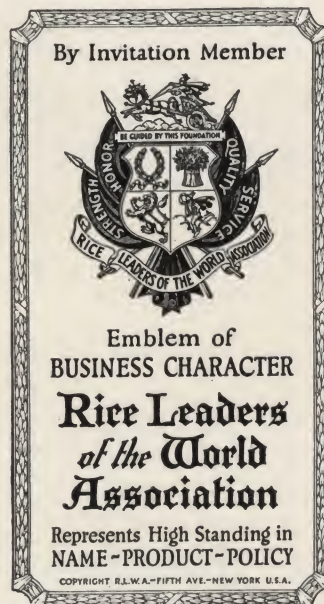
(3) The force of shocks or blows is dissipated by the network of expanded metal which prevents checking and cracking of plaster at these particularly vulnerable points.

(4) Once erected plumb and true, the Expansion products remain rigidly in place as a permanent plaster bond.

This constructive advance in design has been enthusiastically endorsed by both leading architects and plastering contractors as evidenced by its adoption nationally in an impressive list of buildings.

### Wide Range of Materials

Milcor Products as specified under each item are furnished, not only in various weights of metal to ade-



quately adapt them to a variety of spans and uses, but they are made as well in a wide range of selected metals and protective finishes.

**Heat Treating**—All black sheets, after cutting and expansion, are specially heat treated to remove all oils and surface impurities and to re-anneal the metal. This treatment assures longer life and greater strength to the sheets, adds materially to the protective value of the paint and insures maximum resistance to corrosion.

**Painting**—All black Metal Lath is painted after cutting, expansion and heat treating, with Milcor Special Elastic Asphaltum Paint.

**Galvanizing**—All galvanized sheets are tight coated with new, pure zinc spelter before cutting and expansion.

**Sheet Steel**—Products so specified are cut from the highest grade of carefully inspected prime open-hearth sheet steel, either painted or galvanized as noted.

**Copper Alloy Steel**—The peculiar ability of copper alloy steel to resist corrosion is well known. Milcor "Copper Alloy" is of standard quality, carefully controlled for uniformity in production.

Products are furnished in Copper Alloy Steel either painted or galvanized as noted.

**Armco Ingot Iron and Toncan Iron**—Milcor Products are made in both Armco Ingot Iron, the purest iron made, and Toncan Iron, famous for its corrosion-resisting qualities. The superiorities of these metals have been proved beyond any doubt.

Products are furnished in Armco Ingot Iron and Toncan Iron either painted or galvanized as noted.

**Anaconda Pure Copper**—Under extreme conditions, where destructive acid fumes, salt air or other abnormal atmospheric attack is apt to exist, pure Anaconda copper is frequently used. This copper has great tensile strength and stiffness in addition to its value as positive resistance to corrosion.

Products so noted are available, cut from pure 16-oz. cold rolled Anaconda copper.

**Pure Zinc**—Products so noted are available, cut from pure zinc Nos. 11 and 12.

### Labels

Every bundle of Milcor Lath is conspicuously labeled with a distinctive metal tag vouching clearly for weight and particular metal used. Thus verification of specification requirements is easily insured

### Packing and Crating

Particular attention is given to provide thoroughly substantial shipping crates for crated materials. Bundle protection insures lath, etc. against injury to the products during shipping, storage, and handling.

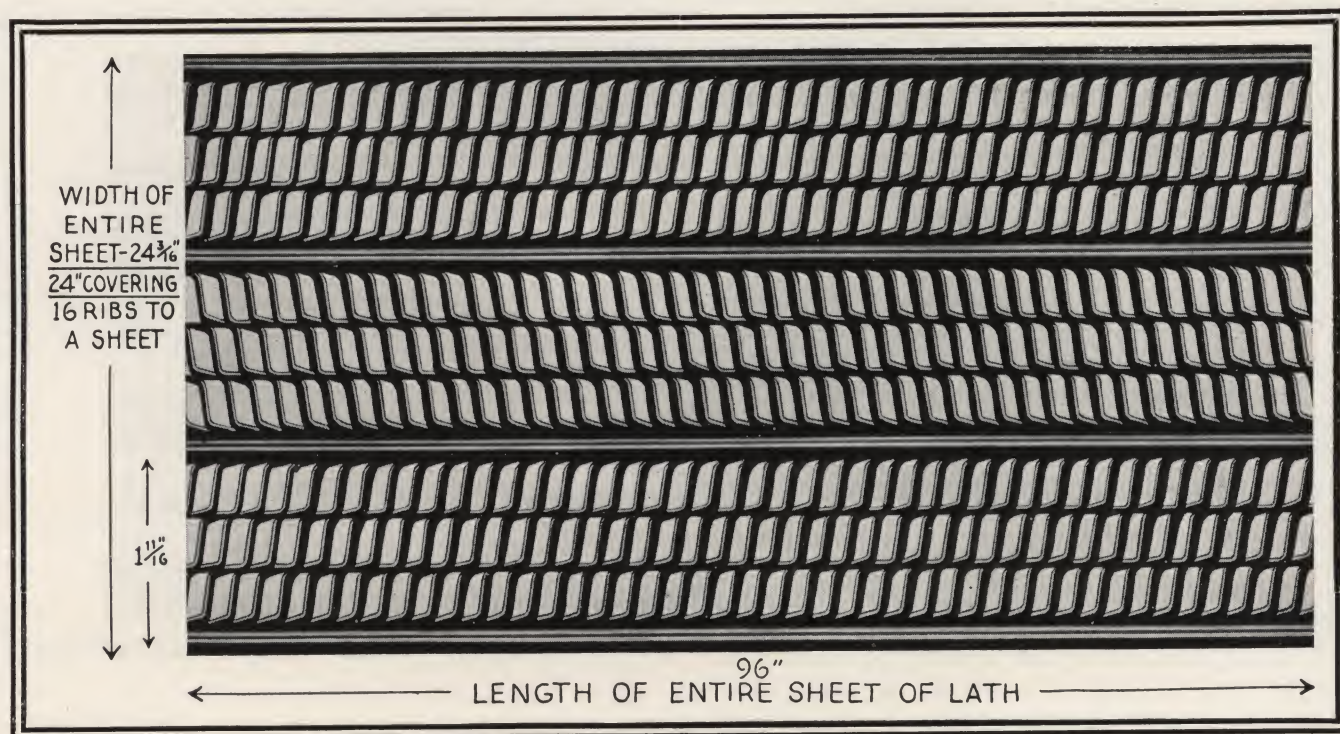
The metal tags are shown as examples of labels for identification of Milcor Products. These tags show clearly the name and weight of the materials which they identify.



MILCOR

# Kuehn's Specialmesh

A FINE MESH LATH FOR WALLS AND CEILINGS



## Description

### General Characteristics

Kuehn's Specialmesh is a new rib lath specially adapted for interior walls and ceilings. The meshes are so formed that in plastering the slightest pressure of the trowel completely imbeds the lath, and due to the small mesh, waste of plaster is eliminated. The longitudinal stiffening ribs are  $\frac{3}{8}$  in. wide, spaced  $1\frac{5}{8}$  ins. on center and are connected at  $\frac{1}{4}$ -in. intervals by strands. These strands, in turn, are strongly reinforced at their junctures by stiffening members (two between each pair of ribs.) All sheets are squared on both ends.

Kuehn's Specialmesh is scientifically designed to incorporate the best features of every type of such lath made, and to offer entirely new advantages.

### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

### Specification Data

### Materials and Weights (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

SHEET STEEL, GALVANIZED—3.60.

COPPER ALLOY STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—3.40, 4.00.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—4.00.

### Note These Features—They Are Important

(1) **Scientifically Designed Mesh**—Tests show this size mesh to give the most positive plaster grip.

(2) **Positive Rigidity**—There are 16 ribs to a sheet of Kuehn's Specialmesh, which are corrugated to make them doubly rigid.

(3) **Heat-Treated and Re-annealed**—Heat-treating and re-annealing lengthens the life of the lath and makes for pliability—two very important factors in the efficiency of any metal lath.

(4) **No Plaster Waste**—It is practically impossible to waste plaster (as ordinarily applied) by forcing an unnecessary amount through Kuehn's Specialmesh.

(5) **Easy to Apply**—It has no sharp edges to lacerate the lather's hands.

### Recommended Weights for Maximum Spacing of Supports (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.75	16	16	16	12
3.0	19	19	19	16
3.4	19	19	19	16
4.0	19	19	19	19

# Stay-Rib Metal Lath No. 1



## Description

No. 1 Stay-Rib Lath is a general utility rib lath, ideally adapted for interior plaster (especially ceilings) and exterior stucco. It is designed for maximum rigidity and, due to its added metal surface, unusual economy of material—an adequate key, at the same time, is assured. The longitudinal stiffening ribs are  $\frac{1}{2}$  inch wide, spaced  $1\frac{3}{4}$  inches on center and are interconnected at  $\frac{1}{4}$ -inch intervals by strands. These strands, in turn, are strongly reinforced at their centers by a stiffening member.

For both ceiling and wall plaster reinforcement, Milcor Stay-Rib No. 1 is unusually satisfactory. The

rigidity of its rib and the character of its expanded design are factors in preventing plaster from falling during application. For suspended ceilings, Stay-Rib No. 1 saves money because it is exceptionally stiff and rigid. Fewer channels and less labor are required because spacing can be made much wider without impairing safety.

After cutting, Milcor Stay-Rib Lath is heat-treated and reannealed which relieves any internal stresses that might have resulted in the expanding process and gives the metal longer life and greater strength. Milcor Special Elastic Paint adds further protection.

## Specification Data

### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

### Materials and Weights (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

SHEET STEEL, GALVANIZED—3.60.

COPPER ALLOY STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

ARMCO INGOT IRON, OR TONCAN IRON PAINTED—3.40, 4.00.

ARMCO INGOT IRON, OR TONCAN IRON, GALVANIZED—4.00.

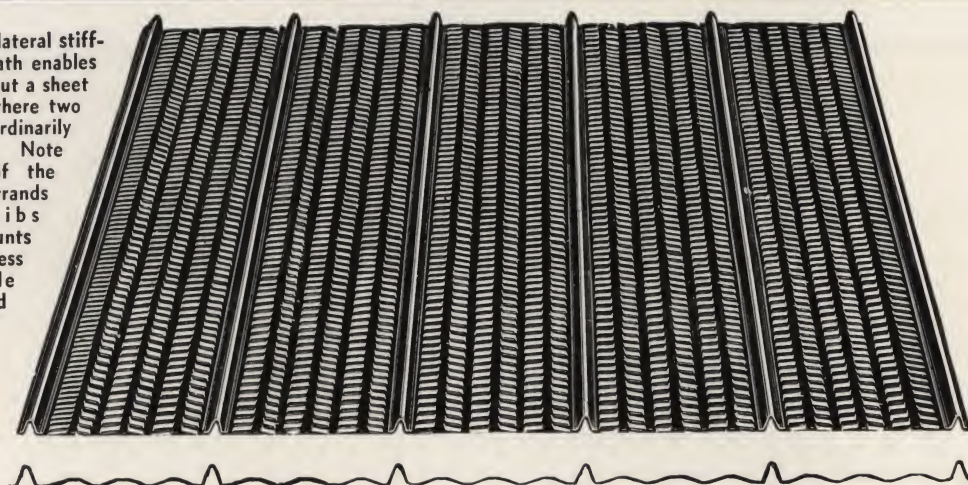
### Recommended Weights (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.75	16	16	16	16
3.0	19	19	19	16
3.4	19	19	19	19
4.0	19	19	19	19

MILCOR

## 3/8" Stay-Rib Metal Lath No. 2

The unusual lateral stiffness of this lath enables one man to put a sheet on ceilings where two men would ordinarily be required. Note the angle of the stays or strands between ribs which accounts for a stiffness not possible with diamond mesh lath.



### Description

No. 2 Stay-Rib has 3/8-inch heavy longitudinal ribs spaced 4.8 inches on center with five stiffening members between ribs forming adequate reinforcement for the connecting strands spaced at 1/4-inch intervals.

It is ideal for all purposes where a self-furring lath is required.

Due to the strength and rigidity of the ribs, this lath effects very definite economies in both labor and

material on furred or suspended ceilings where wide spacing of supporting cross channels is possible.

It is used extensively, without supporting furring, for ceilings attached directly to the joists beneath steel dome reinforced concrete construction. It is likewise ideal for both ceilings and reinforcement for floor slabs in standard bar joist floor and roof construction and for both hollow and solid plaster partitions in conjunction with metal studs or channels.

### Specification Data

#### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

#### Materials and Weights (lbs. per sq. yd.)

Note: For complete descriptions of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

SHEET STEEL, GALVANIZED—3.60.

COPPER ALLOY STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—3.40, 4.00.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—4.00.

#### Recommended Weights (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.75	19	19	19	19
3.0	24	24	19	19
3.4	31 1/2	31 1/2	24	24
4.0	31 1/2	31 1/2	24	24

### Milcor Metal Lath Clips

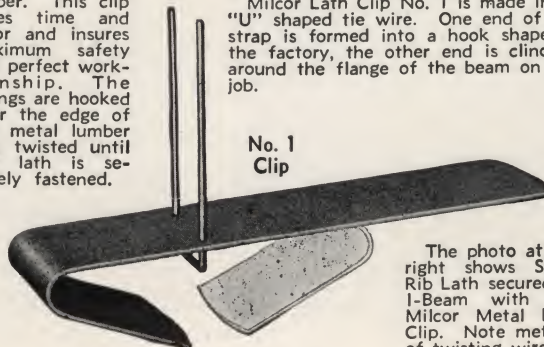
No. 2 Clip with design to facilitate the use of Stay-Rib Metal Lath in connection with metal

lumber. This clip saves time and labor and insures maximum safety and perfect workmanship. The prongs are hooked over the edge of the metal lumber and twisted until the lath is securely fastened.

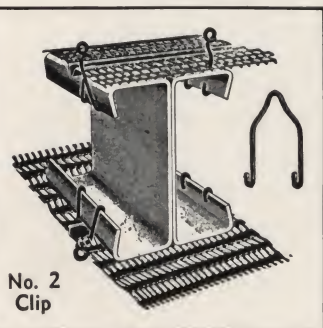
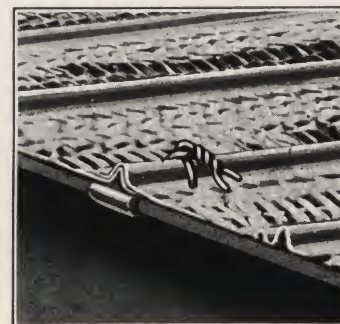
Weight of No. 2 Clip per thousand—9 lbs. Packed in cartons of 1000.

Milcor Lath Clip No. 1 is made in two parts: A flat metal strip and a strong "U" shaped tie wire. One end of the strap is formed into a hook shape at the factory, the other end is clinched around the flange of the beam on the job.

No. 1 Clip

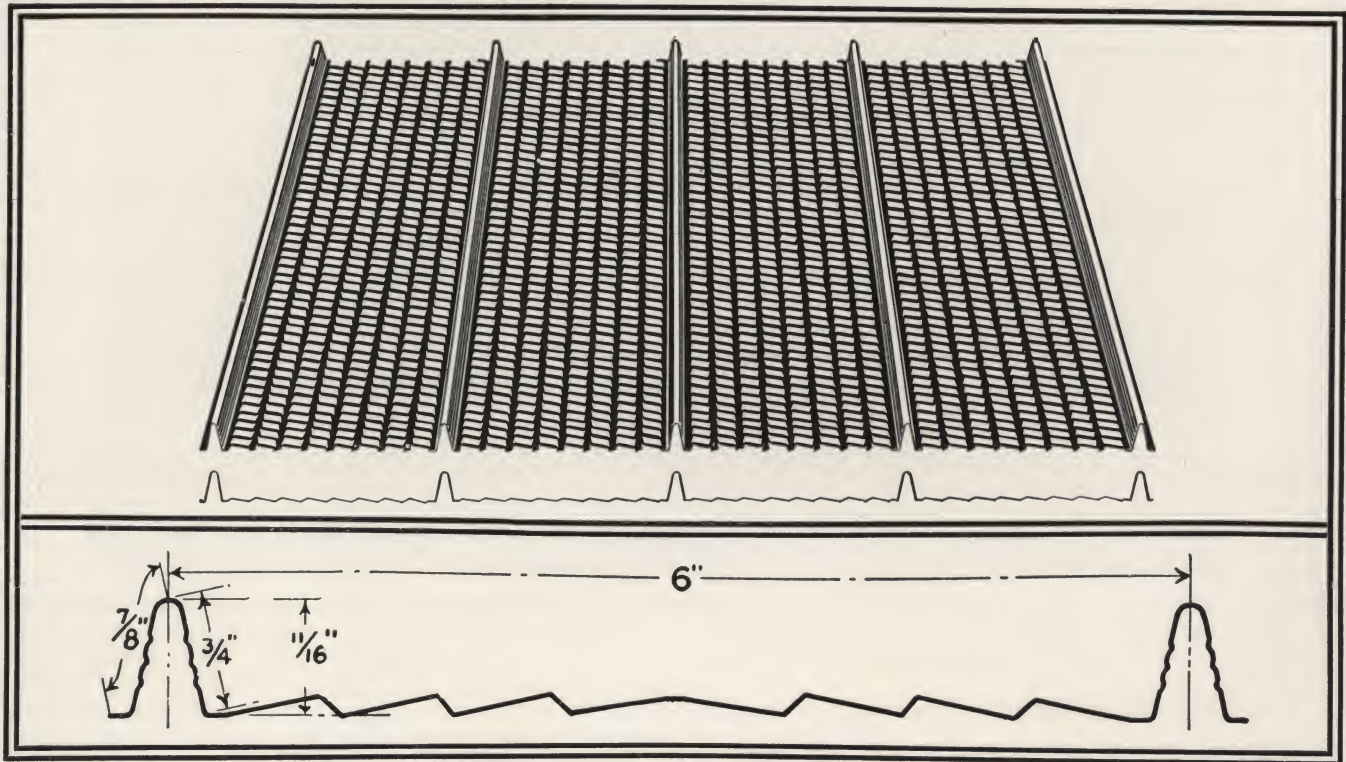


The photo at the right shows Stay-Rib Lath secured to I-Beam with the Milcor Metal Lath Clip. Note method of twisting wires.



No. 2 Clip

## 3/4" Stay-Rib Metal Lath No. 3



### Description

No. 3 (3/4 inch) Stay-Rib has 3/4-inch heavy longitudinal ribs spaced 6 inches on center, with seven stiffening members between ribs, forming adequate reinforcement for the connecting strands spaced at 1/4-inch intervals. The Milcor process of forming the heavy ribs is important. They are cold-drawn—not stamped—straight, true and uniform in shape with the sides of the rib sloped and **corrugated** to insure maximum rigidity.

This lath is designed primarily as reinforcement for concrete floors and roofs, serving in addition as a form upon which wet concrete is poured. In this capacity it is most extensively used in connection with steel and bar joists. The lath may also be used in solid slab construction and may be curved to any required form. It is recommended that wherever curved sheets are required, the curving be accurately done **at the factory**.

Besides its adaptability for flat roof reinforcing, it is unexcelled in the construction of fire-safe pitched roofs, sawtooth and monitor-type roofs and their adjoining wall or gable constructions.

No. 3 Stay-Rib is admirably adapted to the construction of solid plaster partitions where, due to the rigidity and reinforcing qualities of the ribs, no studs are required—the lath spans vertically from floor to ceiling.

Laid over wood joists, it is ideal as reinforcing for the concrete base for tile, terrazzo or composition flooring.

### Specification Data

#### Sheet Size

The covering width of each sheet is 24 inches. **Standard** sheets are 4, 5, 6, 7, 8, 9, 10, 11, and 12 feet long. Sheets of intermediate length can be furnished, cut to exact lengths without extra cost (except that of stock waste).

#### Materials and Weights (lbs. per sq. ft.)

Note: For complete descriptions of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—0.46; 0.56; 0.74.

SHEET STEEL, GALVANIZED—On order. 0.53.

COPPER ALLOY STEEL, PAINTED—0.46; 0.56; 0.74.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—0.46; 0.56; 0.74.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—On order. 0.60.

#### Cross Sectional Areas (sq. in. per ft. width)

.46—.1235; .56—.1482; .74—.1977.

# No. 3 (3/4") Stay-Rib Metal Lath

## TABLE OF TOTAL SAFE LOADS

FOR CONCRETE SLABS REINFORCED WITH 3/4-INCH STAY-RIB NO. 3

**Assumed Conditions**  
 Loads given are Live Loads plus Dead Loads.  
 Stress in steel—16,000 lbs. per sq. in.  
 Stress in concrete (fc) variable as per table—given in pounds per square inch.  
 Ratio on Modulus of Elasticity of Steel (Es) to Modulus of Elasticity of Concrete (Ec) = n = 15.

Distance of Center of Gravity of lath above bottom of sheet—.163 of an inch.  
 Resisting Moment (R. M.)—given in inch pounds per foot width.  
 Table based on moment of  $\frac{WL}{10}$

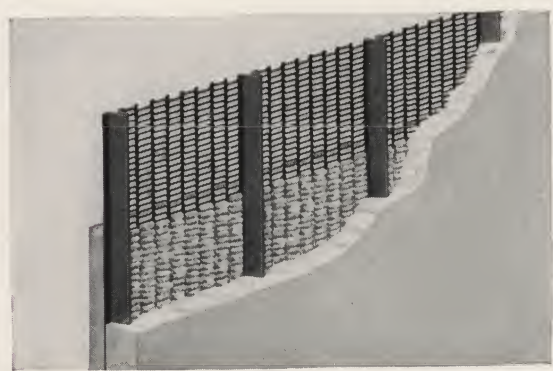
Thickness of concrete, in.	Weight of slab, per sq. ft., lbs.	Weight of slab with 1/2 in. port-land cement plaster on under side, lbs.	Weight of lath per sq. ft., lbs.	Resisting moment (R. M.) inch lbs. per foot of width	Stress in concrete in lbs. per sq. in. (fc)	Total Safe Loads in Pounds per Square Foot for Spans as Indicated in Feet									
						3 ft.	4 ft.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	11 ft.	
2	24	30	0.46	3230	540	299	168	108	75	55					
2	24	30	.56	3840	600	355	200	128	89	65	50				
2	24	30	.74	5050	690	468	263	168	117	86	66	52			
2 1/2	30	36	.46	4150	460	384	216	138	96	71	54	43			
2 1/2	30	36	.56	4940	520	458	258	165	114	84	64	51			
2 1/2	30	36	.74	6490	620		338	216	150	110	85	67	54		
3	36	42	.46	5084	410	470	265	170	118	87	66	52			
3	36	42	.56	6049	460	560	315	202	140	103	79	62	50		
3	36	42	.74	7960	550		415	266	184	135	104	82	66	55	
3 1/2	42	48	.46	6000	380	555	312	200	139	102	78	62			
3 1/2	42	48	.56	7160	420		373	238	165	122	93	74	60		
3 1/2	42	48	.74	9440	490		490	315	218	161	123	97	78	65	
4	48	54	.46	6960	350		363	232	161	118	91	72	58		
4	48	54	.56	8289	390		432	276	192	141	108	85	69	57	
4	48	54	.74	10920	460		568	364	252	186	142	112	91	75	

Note: This table should not be used unless under side of slab is given a coat of portland cement plaster 1/2 inch thick.

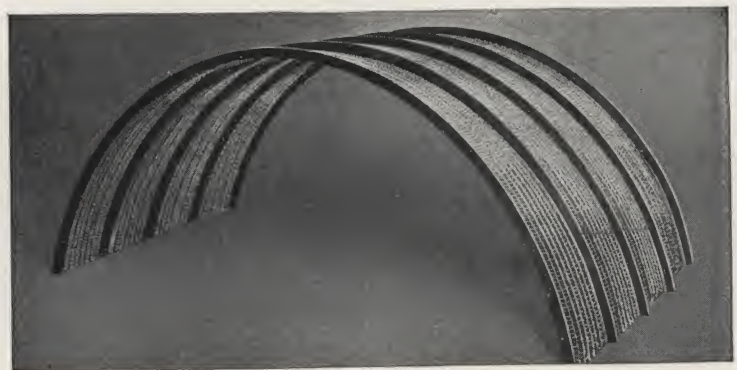
## WEIGHTS OF LATH FOR CARRYING WET CONCRETE OVER VARIOUS SPANS

Weight of lath per sq. ft., lbs.	Allowable Spans for Wet Concrete Poured to Thickness Indicated				
	2-in. slab	2 1/2-in. slab	3-in. slab	3 1/2-in. slab	4-in. slab
0.46	3 ft. 3 in.	3 ft.	2 ft. 9 in.	2 ft. 6 in.	2 ft. 3 in.
.56	3 ft. 6 in.	3 ft. 3 in.	3 ft.	2 ft. 9 in.	2 ft. 6 in.
.74	4 ft.	3 ft. 9 in.	3 ft. 3 in.	3 ft.	2 ft. 9 in.

When longer spans than those given above are required, temporary supports should be used to maintain these maximum spacings.



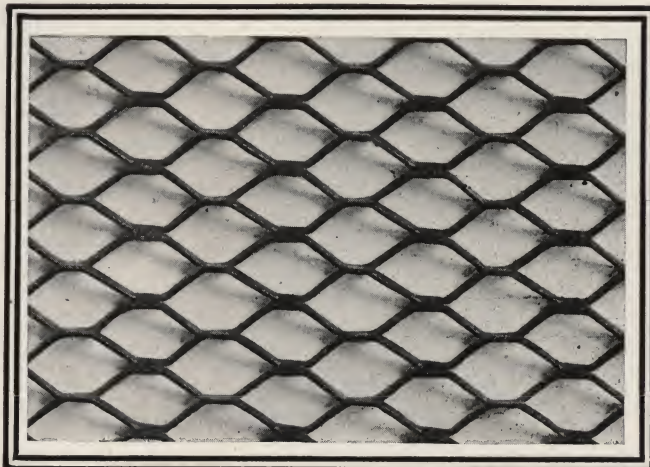
Milcor 3/4-inch Stay-Rib Metal Lath No. 3 is admirably suited for use in solid partitions, with ribs perpendicular to the floor. The strong 3/4-inch ribs are so rigid that no upright channels are required.



Lath sheets of Milcor Stay-Rib No. 3 may be curved to any desired radius, or curved at the ends and flat in the center, with ribs to the outside only.  
 Sheets may also be curved to form a complete circle.

# Netmesh AND Smalmesh {EXPANDED DIAMOND MESH} Metal Laths

## PLAIN



### Description

Netmesh Metal Lath is  $\frac{11}{16}$  inch by  $\frac{9}{16}$  inch expanded Diamond Mesh produced by special machines and equipment, designed and built by Milcor engineers. Smalmesh is  $\frac{9}{16}$  inch by  $\frac{15}{16}$  inch expanded Diamond Mesh. Due to the close rigid mesh only a comparatively small amount of plaster is required to produce a perfect key resulting in plastering speed, ease and economy in plastering material.

Netmesh and Smalmesh are general utility laths ideally suited to the ordinary lathing need. They can be readily bent or formed for furred or ornamental members and for fireproofing of steel beams, girders, and columns.

### Specification Data

#### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.  
All sheets are squared on both ends.

#### Materials and Weights (lbs. per sq. yd.)

Note: For complete descriptions of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

SHEET STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—2.50, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—2.50, 3.40.

NO. 11 PURE ZINC—2.8.

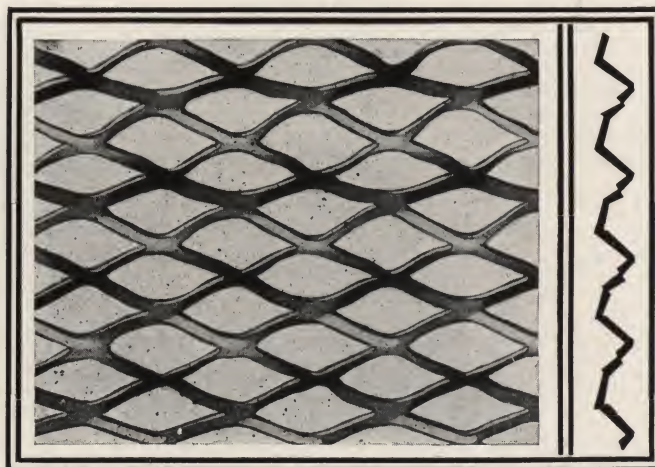
16-OZ. COPPER—3.0.

#### Recommended Weights (lbs. per sq. yd.)

Recommended weights	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.5	16	12	....	....
3.0	16	13½	13½	12
3.4	16	13½	16	13½

Note: Expanded Metal Lath weighing 2.2 lbs. per sq. yd. is regularly manufactured and available for use in partitions where Underwriter's Standards are not exacted; it is also suitable for corner reinforcements (Corner Lath).

## CORRUGATED (Self-furring)



### Description

Netmesh and Smalmesh Corrugated Metal Laths have the characteristics of standard mesh with corrugations added running longitudinally (the length of the sheet). These laths are self-furring—no furring strips are required. The corrugations act as furring and allow the plaster or stucco base to fill in between the lath and the supporting stud, sheathing or wall forming an adequate key.

These laths are ideal for exterior stucco work, either back plastered (spanning studs without sheathing) or applied directly over sheathing covered with waterproof paper.

### Specification Data

#### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.  
All sheets are squared on both ends.

#### Materials and Weights (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

SHEET STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—2.50, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—2.50, 3.40.

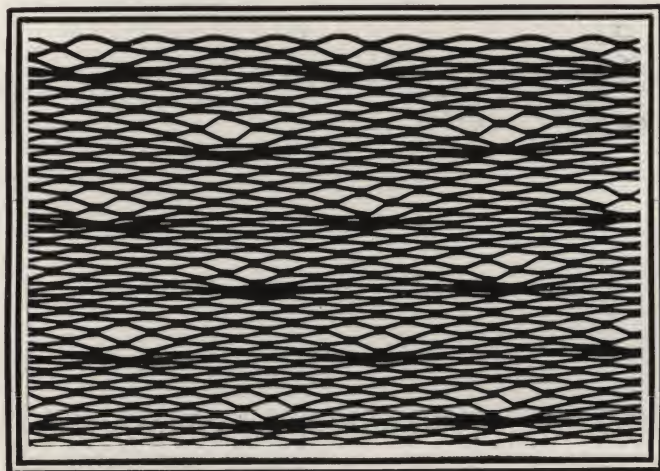
#### Recommended Weights (lbs. per sq. yd.)

OVER SHEATHING, ETC.—Studs 16 in. O. C., 2.50.

BACK-PLASTERED—Studs 16 in. O. C., 3.40.

## Furlath

Self-furring Expanded Diamond Lath



### Description

Furlath is a  $\frac{3}{8}$ -inch mesh diamond expanded self-furring lath designed for exterior stucco. It has the general characteristics of Netmesh (see page 10). The self-furring feature consists of staggered indentations or stools spaced  $3\frac{1}{2}$  inches apart horizontally and 2 inches apart vertically, which hold the body of the lath  $\frac{3}{8}$  of an inch away from the sheathing or wall. The deforming has a stiffening effect and assures complete embedding of lath with the first coat of stucco and locates the reinforcement centrally in a continuous sheet. Furlath should be secured to the sheathing at each depression or stool with a six-penny nail.

### Specification Data

#### Sheet Size

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.  
All sheets are squared on both ends.

#### Materials and Weights (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

SHEET STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, PAINTED—2.50, 3.40.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—2.50, 3.40.

#### Recommended Weights (lbs. per sq. yd.)

OVER SHEATHING, ETC.—Studs 16 in. O. C., 2.50.

BACK-PLASTERED—Studs 16 in. O. C., 3.40.

## Big-Mesh

Extra Large Diamond for Stucco



### Description

Success with stucco requires not only a correct plastering base, but proper reinforcement as well. This reinforcement must be such that the plastering operation will easily and effectively make it an integral part of the stucco slab.

With these requirements in mind Milcor Big Mesh Stucco Lath has been designed essentially for stucco work applied either by hand or "gunite" machine. It is expanded into diamond meshes  $1\frac{1}{2} \times 3$  inches with heavy connecting strands.

Since reinforcement is the essential feature, furring is necessary. This is accomplished economically by the Milcor Furring Nail,  $1\frac{1}{2}$  inches long, equipped with a spacing device held close up into the mesh angles, placing the wings so that the conveying strands rest on its top edge,  $\frac{3}{8}$  of an inch out from the sheathing.



Furring Nail

### Material Specification Data

COPPER ALLOY STEEL, PAINTED.

#### Sheet Size and Weight (lbs. per sq. yd.)

48x96 in., 1.8 lbs., packed 10 sheets (35% sq. yds.) per bundle.

48x96 in., 3.6 lbs., packed 10 sheets (35% sq. yds.) per bundle.

All sheets are squared on both ends.

#### Application

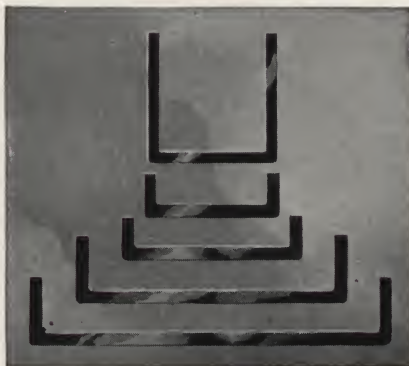
Beginning at the top, apply with the long dimension horizontally. Bend sheets around all corners and angles. Lap sheets one full diamond at junctures. Space furring nails (staggered) not more than 10 inches O. C. vertically and 12 inches O. C. horizontally.

# Cold AND Hot Rolled Steel Channels



## Description

Milcor Cold Rolled Steel Channels are made of 16-gauge pressed steel, combining great tensile strength with light weight. The legs are accurately rolled at right angles furnishing a level surface on all three sides and maximum stiffness or rigidity. The channels are uniform in section and straight throughout their entire length. Compared with Hot Rolled Channels, Cold Rolled Channels, while



of equal structural strength, are more easily cut and bent.

They are adapted to use as supporting members for metal lath on solid plaster partitions, hollow-stud partitions, metal furring, and suspended ceilings. Solid partitions not only save space but they are thoroughly fireproof, permanently immune to cracking, effective barriers to sound, and economical.

## Specification Data

### COLD ROLLED CHANNELS

#### Stock Sizes and Weights

PENCIL CHANNELS— $\frac{7}{8} \times \frac{7}{8}$  in. x 16 ft. long—131 lbs. per 1,000 lin. ft. Packed 20 channels to a bundle.

CUBRO CHANNELS— $\frac{5}{8} \times \frac{5}{8}$  in. leg depth x 16, 18, 20 ft. long—270 lbs. per 1,000 lin. ft. Packed 20 channels to a bundle.

$\frac{3}{4}$ -INCH CHANNELS— $\frac{3}{4} \times \frac{3}{8}$  in. leg depth x 16, 18, 20 ft. long—276 lbs. per 1,000 lin. ft. Packed 20 channels to a bundle.

1-INCH CHANNELS— $1 \times \frac{3}{8}$  in. leg depth x 16, 18, 20 ft. long—332 lbs. per 1,000 lin. ft. Packed 10 channels to a bundle.

$1\frac{1}{2}$ -INCH CHANNELS— $1\frac{1}{2} \times \frac{3}{8}$  in. leg depth x 16, 18, 20 ft. long—456 lbs. per 1,000 lin. ft. Packed 10 channels to a bundle.

2-INCH CHANNELS— $2 \times \frac{3}{8}$  in. leg depth x 16, 18, 20 ft. long—552 lbs. per 1,000 lin. ft. Packed 10 channels to a bundle.

#### Maximum Permissible Heights (Non-bearing Partitions)

Note: Comparison of these maximum permissible heights with

those of other fireproof partition materials will show the wide margin by which this construction exceeds.

$\frac{3}{4}$ -INCH CHANNELS—2 in. thick solid—10 ft.;  $2\frac{1}{2}$  in. thick solid—12 ft.

1-INCH CHANNELS—2 in. thick solid—12 ft.;  $2\frac{1}{2}$  in. thick solid—16 ft.

$1\frac{1}{2}$ -INCH CHANNELS— $2\frac{1}{2}$  in. thick solid—22 ft.; 3 in. thick solid—24 ft.

TWO  $\frac{3}{4}$ -INCH CHANNELS—3 in. or more hollow—24 ft.

### HOT ROLLED CHANNELS

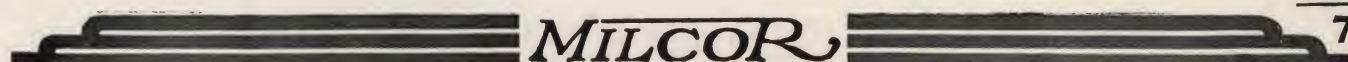
#### Stock Sizes and Weights

$\frac{3}{4}$ -INCH CHANNELS— $\frac{3}{4} \times \frac{5}{8}$  in. leg depth x 16, 18, 20 ft. long—.30 lbs. per ft.

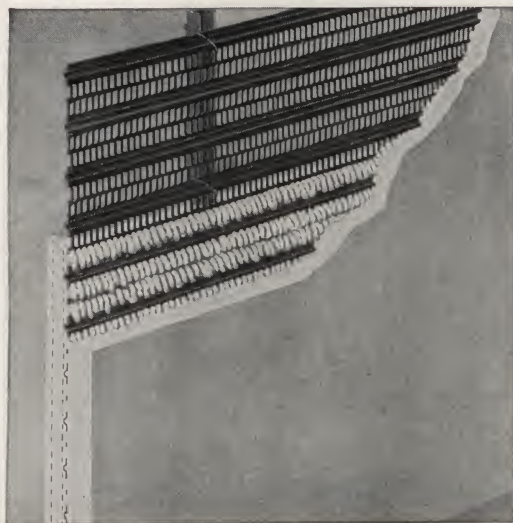
1-INCH CHANNELS— $1 \times \frac{3}{8}$  in. leg depth x 16, 18, 20 ft. long—.41 lbs. per ft.

$1\frac{1}{2}$ -INCH CHANNELS— $1\frac{1}{2} \times \frac{7}{8}$  in. leg depth x 16, 18, 20 ft. long—.85 lbs. per ft.

2-INCH CHANNELS— $2 \times \frac{7}{8}$  in. leg depth x 16, 18, 20 ft. long—1.26 lbs. per ft.



## MILCOR Cold and Hot Rolled Steel Channels



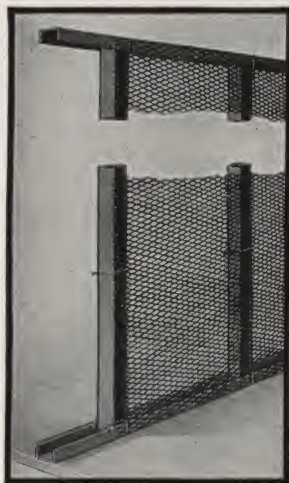
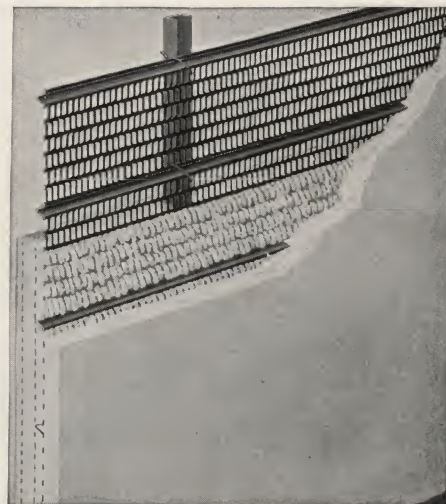
Plastering on a base of Milcor Metal Lath on any of the Milcor Steel Channels described on page 12 answers every requirement for the construction of fireproof walls, ceilings and partitions.

Illustration at right shows  $\frac{3}{8}$ -in. Stay-Rib No. 2 Lath, used with Cubro Channels in solid partition construction, showing application of plaster.

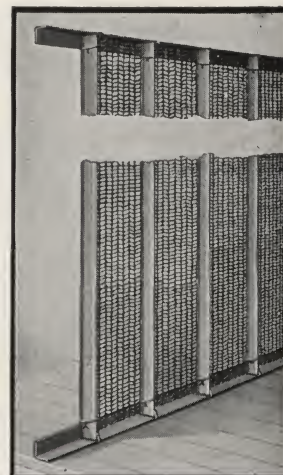
Illustration at left shows Stay-Rib Metal Lath No. 1 in solid partition. Plaster is applied to one side and then to the other as shown here.

One type of hollow partition erected with Milcor Steel Channels is shown below. The illustration indicates angle irons used as floor runners. Steel channels are more frequently used as floor and ceiling runners, however, because they hold the upright channels more securely in position during the course of erection.

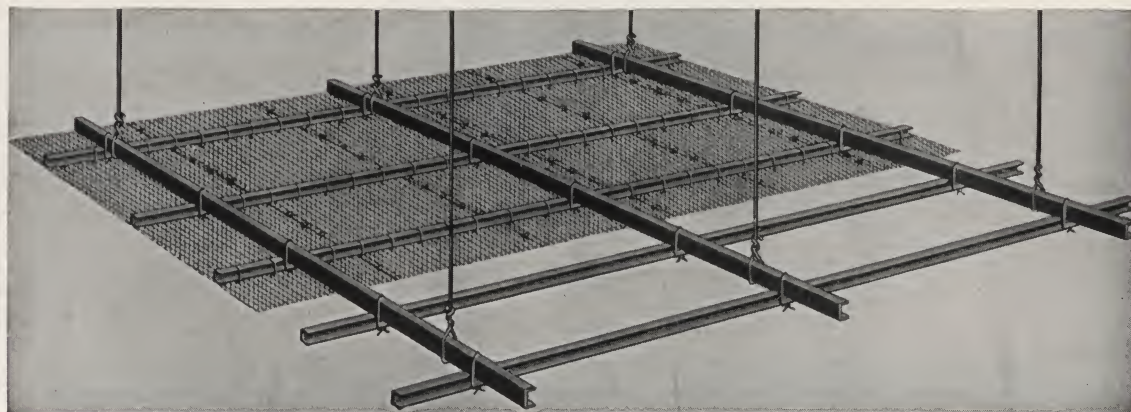
Send for "Partition Handbook" for complete information on solid partitions.



Solid partition showing Milcor Netmesh Metal Lath on Cubro Channels before plastering. Floor and Ceiling Cubro runner-channels merely pinched on each side of upright Cubro Channels.



$\frac{3}{4}$ -in. Stay-Rib Metal Lath No. 3 can be used in solid partition construction without channels, ribs perpendicular to floor. Angle-irons or special channels may be used for floor and ceiling runners.



For suspended ceilings Kuehn's Specialmesh, Netmesh and Stay-Rib Metal Lath are highly practical and efficient. Flat steel hangers 1 in. by  $\frac{1}{8}$  in., or  $\frac{1}{4}$ -in. round steel hangers, spaced not to exceed 4 ft. apart, attached to the floor construction, form the support, from which is suspended framing, made up of  $1\frac{1}{2}$ -in. Milcor Steel Runner Channels crossed by  $\frac{3}{4}$ -in. Milcor Steel Furring Channels and tied with No. 16 Wire.

## No. 1 Expansion (2 5/8") CORNER BEAD

## 5" Wing, 24-Gauge Expansion CORNER BEAD



Look for the lettering: "Milcor Expansion Corner Bead" which is stamped on the side of each bead. Demand the genuine. Refuse imitations.



No. 1 Milcor Expansion Corner Bead  
for Outer or Exposed Angles

Fabricated from No. 26 gauge and No. 24 gauge tight coat galvanized steel or Armco Ingot iron and Toncan iron, also pure zinc and cold rolled copper. Lengths of 6, 7, 8, 9, 10, 11 and 12 feet. Weight per 1,000 feet: No. 26 gauge, 230 lbs. crated; No. 24 gauge, 300 lbs. Packed approximately 500 and 1,000 feet to the crate. Patents Nos. 1,419,232 and 1,482,600. Note installation view on page 2. For full description of Expansion Feature, see page 4. All Milcor Expansion Corner Bead packed in wooden crates.

### Description

The exclusive feature of Milcor Expansion Corner Beads is the use of Expanded Diamond Mesh reinforcement in the wings or webs instead of practically solid members as in other types. The wings of expanded metal permit keying the plaster right up to the bead. Every square inch of these wings reinforces the plaster. There are no smooth surfaces to which the plaster may or may not "stick." The result is effective reinforcement where it is most needed . . . and substantial assurance that the plaster corners will withstand much more than the average abuse.

Milcor Expansion Corner Bead can be wired, stapled, stuck or nailed to any kind of wall construction at lowest cost—no clips are necessary.

### General Characteristics

Narrow rounded nose. Standard wing width 2 1/2 inches with finished edges—not rough or jagged. Obtainable (special) with one narrow wing—1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, or 2 1/2 inches wide. A general utility corner bead.

### Specification Data

#### Materials, Weights, etc.

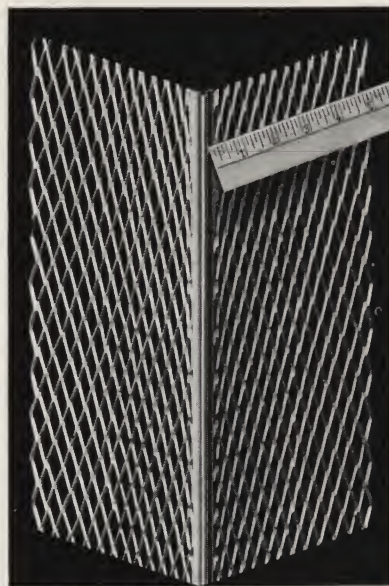
Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, GALVANIZED—26 gauge—230 lbs. per 1,000 lin. ft.; 24 gauge—300 lbs. per 1,000 lin. ft.; 6, 7, 8, 9, 10, 11 and 12 ft. long. Packed approximately 500 and 1,000 lin. ft. per crate.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—26 gauge—230 lbs. per 1,000 lin. ft.; 24 gauge—300 lbs. per 1,000 lin. ft.; 6, 7, 8, 9, 10, 11 and 12 ft. long. Packed approximately 500 and 1,000 lin. ft. per crate.

PURE ZINC—No. 12—290 lbs. per 1,000 lin. ft.; 8, 9, 10 and 12 ft. long. Packed approximately 500 and 1,000 lin. ft. per crate.

COLD ROLLED COPPER—16 oz.—230 lbs. per 1,000 lin. ft.; 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

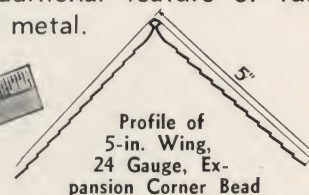


Milcor 5-in. Wing, 24 Gauge Expansion  
Corner Bead

Has expanded metal wings full 5 inches in width. Patent Nos. 1,419,232 and 1,482,600. Other patents pending

### Description

Milcor 5-inch Wing, 24-gauge Expansion Corner Bead has the same advantages as No. 1 Expansion Corner Bead with the additional feature of full 5-inch wings of expanded metal.



There is economy due to saving in material and labor through the use of Milcor 5-inch Wing Expansion Bead on work where it would be necessary to use a strip of metal lath in connection with a narrow wing bead.

Columns are formed more easily . . . on beams, mullions, pilasters and corners the 5-inch wings save time and labor.

### Specification Data

#### Materials, Weights, etc.

SHEET STEEL, GALVANIZED—24 gauge—430 lbs. per 1,000 lin. ft. crated. Packed approximately 500 ft. per crate.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—24 gauge—430 lbs. per 1,000 lin. ft. crated. Packed approximately 500 ft. per crate.

LENGTHS—Same as No. 1 Expansion Corner Bead.

## MILCOR Corner Bead Setter



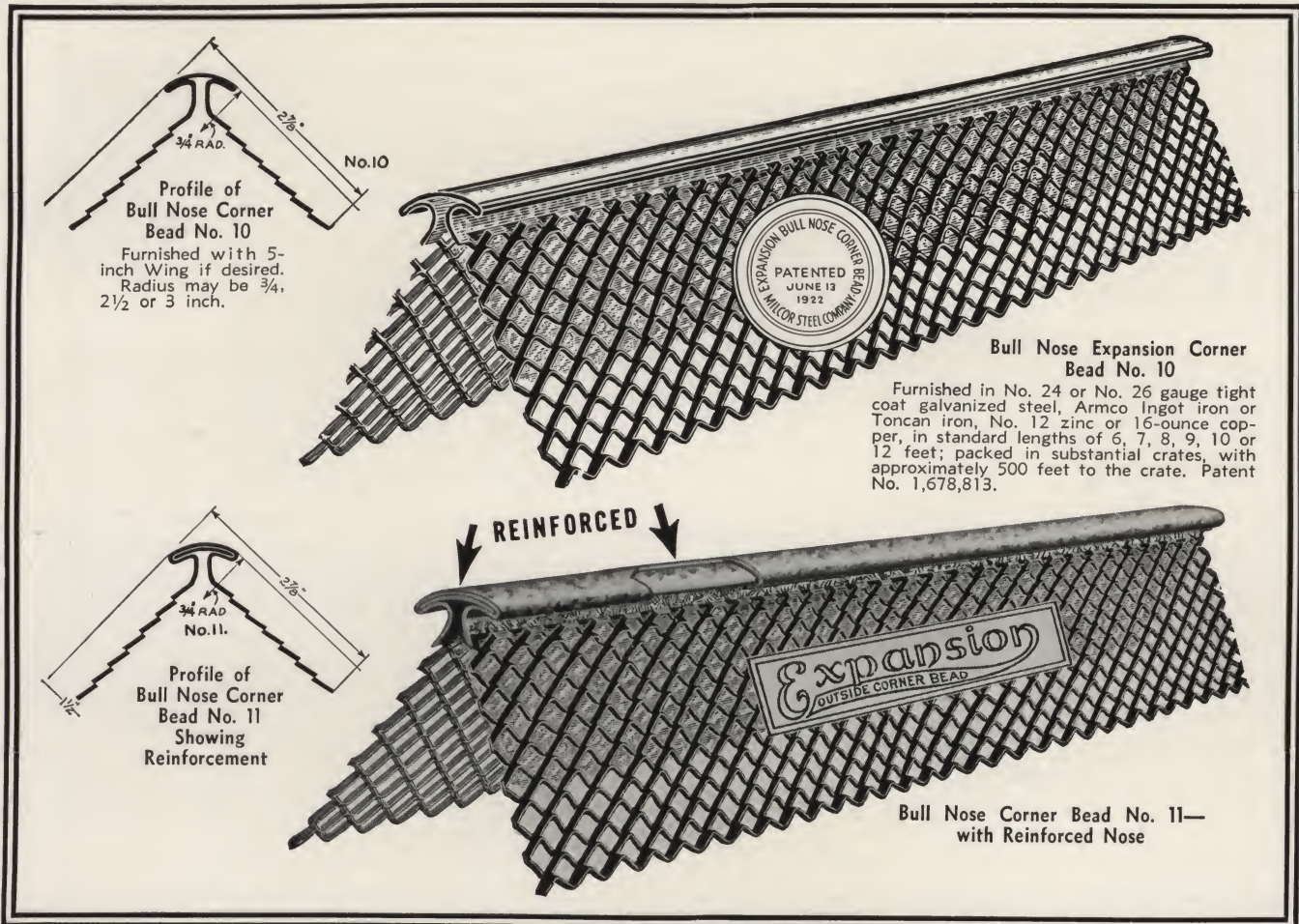
The Milcor Corner Bead Setter makes precision corners certain and enables one man to set more corner bead of any type than two men can by old methods. Three spirit levels make this bead setter practical for either perpendicular or horizontal positions.

MILCOR

# No. 10 Bull Nose Expansion Corner Bead

(For Full Description of Expansion Feature, see Page 4)

# No. 11 (Reinforced) Bull Nose Expansion Corner Bead



## Description

### General Characteristics

No. 10 Bull Nose Expansion Corner Bead is ideal where broad, heavy, curved corners are desired for sanitary conditions, for pleasing appearance, and for supreme protection of plastered walls against heavy furniture, carts, wheel chairs and other objects which are moved frequently.

The Bull Nose Bead has the same advantages as the narrow nose, regular Expansion Corner Bead No. 1.

One-inch nose ( $\frac{3}{4}$ -inch radius). Standard wing width  $2\frac{3}{4}$  inches with finished edges—not rough or ragged. Specially adapted for hospitals, hotels, schools, institutions and office buildings. Specify joints at miters cut with Milcor Coping Machine.

Illustrations of No. 10 Bull Nose Expansion Corner Bead used in conjunction with other Milcor products are given on pages 2 and 25.

No. 11 Bull Nose Expansion Corner Bead is furnished with reinforced nose as shown in illustration above. This extra strength is desirable when particularly hard usage is anticipated. Reinforcing strip can be 26, 24 or 20 gauge sheet steel. Radius of  $2\frac{1}{2}$  or 3 inches furnished if desired.



### Coping Machine

A special portable Coping Machine, which can be set up anywhere on the job, is used to cut the broad Bull Nose for precise, tightly fitting corners.

All Milcor Corner Beads are neatly and securely packed in heavy wooden crates. This ultra-safe packing precludes any possibility of damage in transit or on the job. The beads come to you precisely straight and true.

## Specification Data

### Materials and Weights

Note: For complete description of materials, finishes, etc., see page 4.

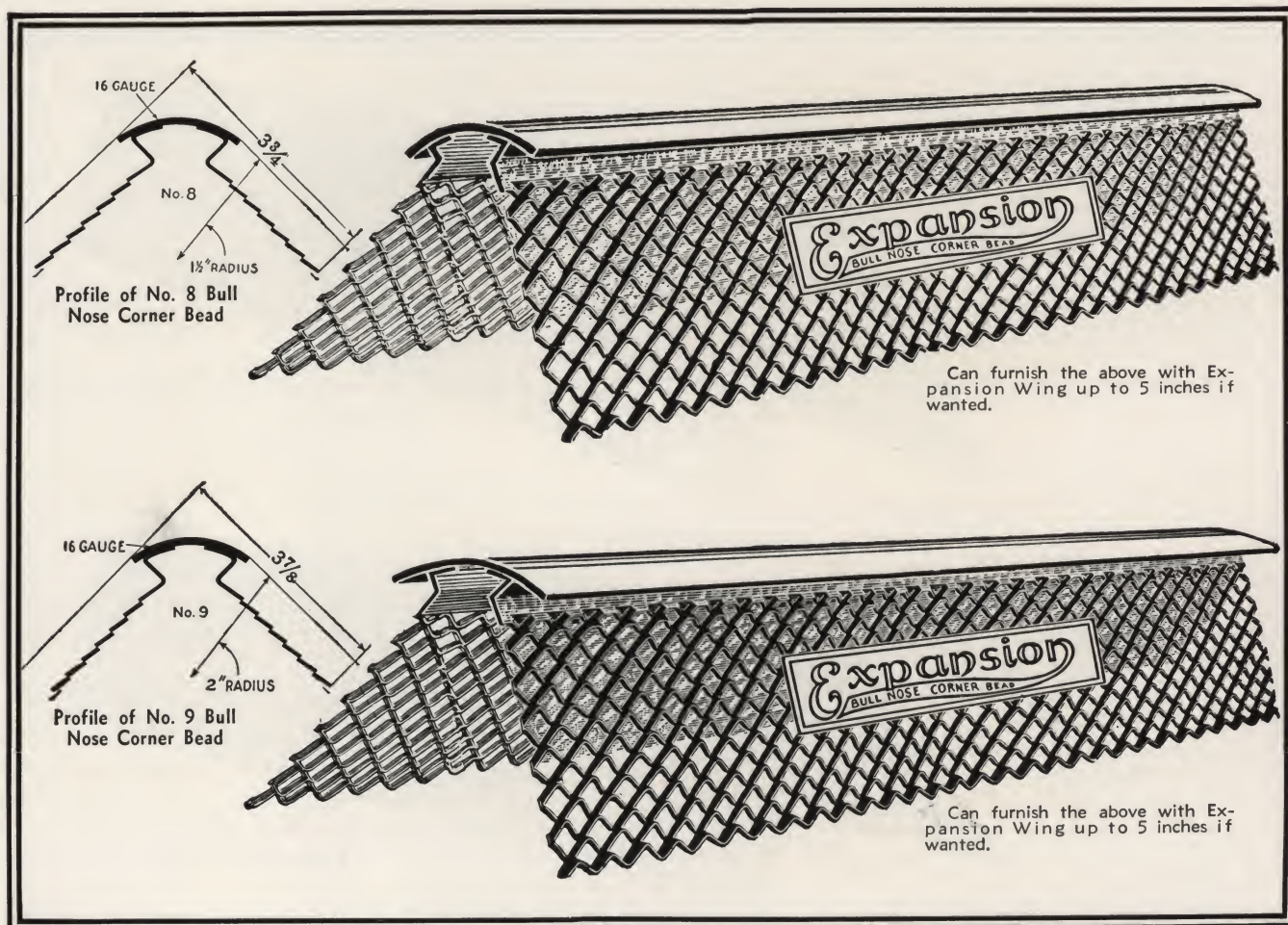
**SHEET STEEL GALVANIZED**—26 gauge—375 lbs. per 1,000 lin. ft., crated; 24 gauge—470 lbs. per 1,000 lin. ft., crated. 6, 7, 8, 9, 10, and 12 ft. long. Packed approximately 500 lin. ft. per crate.

**ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED**—26 gauge—375 lbs. per 1,000 lin. ft., crated; 24 gauge—470 lbs. per 1,000 lin. ft., crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

**COLD ROLLED COPPER**—16 oz.—470 lbs. per 1,000 lin. ft., crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

Note: Weights of No. 11 are heavier according to gauge of reinforcing strip used.

# Nos. 8 and 9 Bull Nose Corner Bead With Expanded Metal Wings

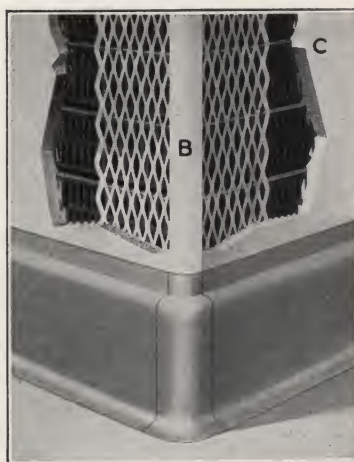


## Description

### General Characteristics

No. 8 Bull Nose Corner Bead with expanded metal wings is for use where extra broad, heavy, curved corners are desired. The 16-gauge nose of the Bead has a face  $2\frac{1}{8}$  ins. in width, curved to a  $1\frac{1}{2}$ -in. radius. 24-gauge Expanded Metal Wings of standard  $2\frac{3}{4}$  in. width are spot-welded to the broad nose of the bead in such manner as to reinforce the heavy face of the bead. This construction gives the No. 8 Bull Nose the same advantages as the regular Milcor Expansion Corner Bead in addition to the broad nose feature.

No. 9 Bull Nose Corner Bead is similar to No. 8 except that it has a face  $2\frac{1}{4}$  ins. wide, curved to a 2-in. radius.



Corner Showing Bull Nose Corner Bead No. 8 in Position in Plastered Wall

With portion of base exposed to show: "B"—the exposed solid bull nose of the bead and its expanded metal; and "C"—Stay-Rib Metal Lath No. 1.

## Specification Data

### Materials and Weights

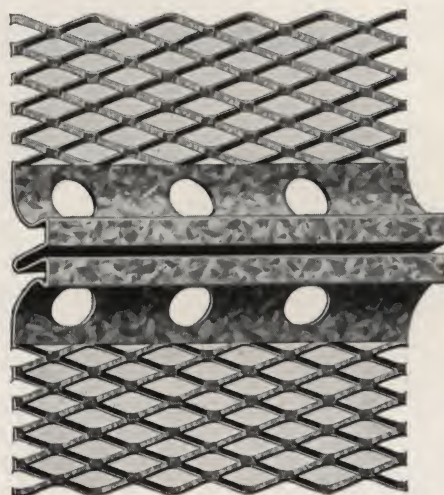
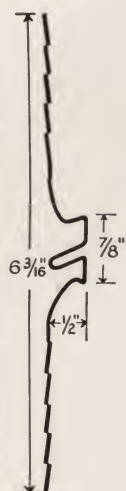
Note: For complete description of materials, finishes, etc., see page 4.

**SHEET STEEL**—Tight-coat, galvanized, 16-gauge nose and 24-gauge expanded metal wing. No. 8—550 lbs. per 1000 lin. ft. crated; No. 9—900 lbs. per 1000 lin. ft. crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

**ARMCO INGOT IRON OR TON-CAN IRON, GALVANIZED**—No. 8—550 lbs. per 1000 lin. ft. crated; No. 9—900 lbs. per 1000 lin. ft. crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

# Picture Mould and Base Screeds (With Expansion Wings)

(Patent Nos. 1,419,232 and 1,482,000)



## No. 17 Expansion Picture Mould

### Specification Data

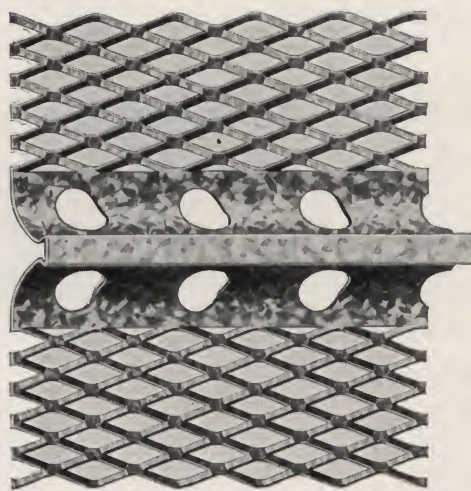
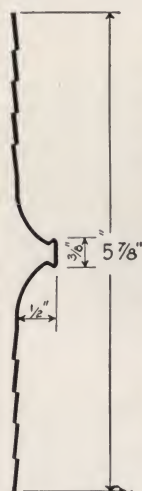
#### General Characteristics

Milcor Picture Mould with Expansion Wings—No. 17 has a wide metal surface flush with the plaster line. It is permanent, sturdy and sanitary, forming a rigid, dependable support for the heaviest decorations. The Expansion Wing forms a strong plaster reinforcement both above and below the moulding.

#### Materials, Weights, Etc.

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, GALVANIZED; ARMCO INGOT IRON OR TONCAN IRON—26-GAUGE, GALVANIZED—400 lbs. per 1,000 lin. ft., 10 ft. long, crated. Packed approximately 500 lin. ft. per crate.



## No. 18 Flush Base Screed with Expansion Wings

### Specification Data

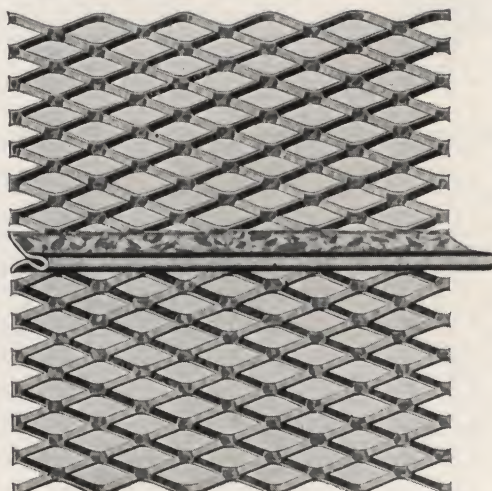
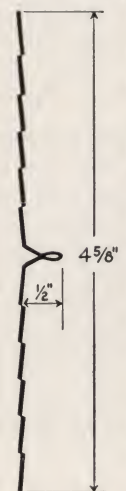
#### General Characteristics

This is a new type flush base screed with patented expansion wings. It is characterized chiefly by the wide flat nose which forms a dividing strip between plaster and flush cement base. Expansion wings reinforce both plaster and cement and guard against cracks.

#### Materials, Weights, Etc.

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, GALVANIZED; ARMCO INGOT IRON OR TONCAN IRON, 26-GAUGE GALVANIZED—300 lbs. per 1,000 lin. ft., 10 ft. long, crated. Packed approximately 500 lin. ft. per crate.



## No. 3 Expansion Base Screed

### Specification Data

#### General Characteristics

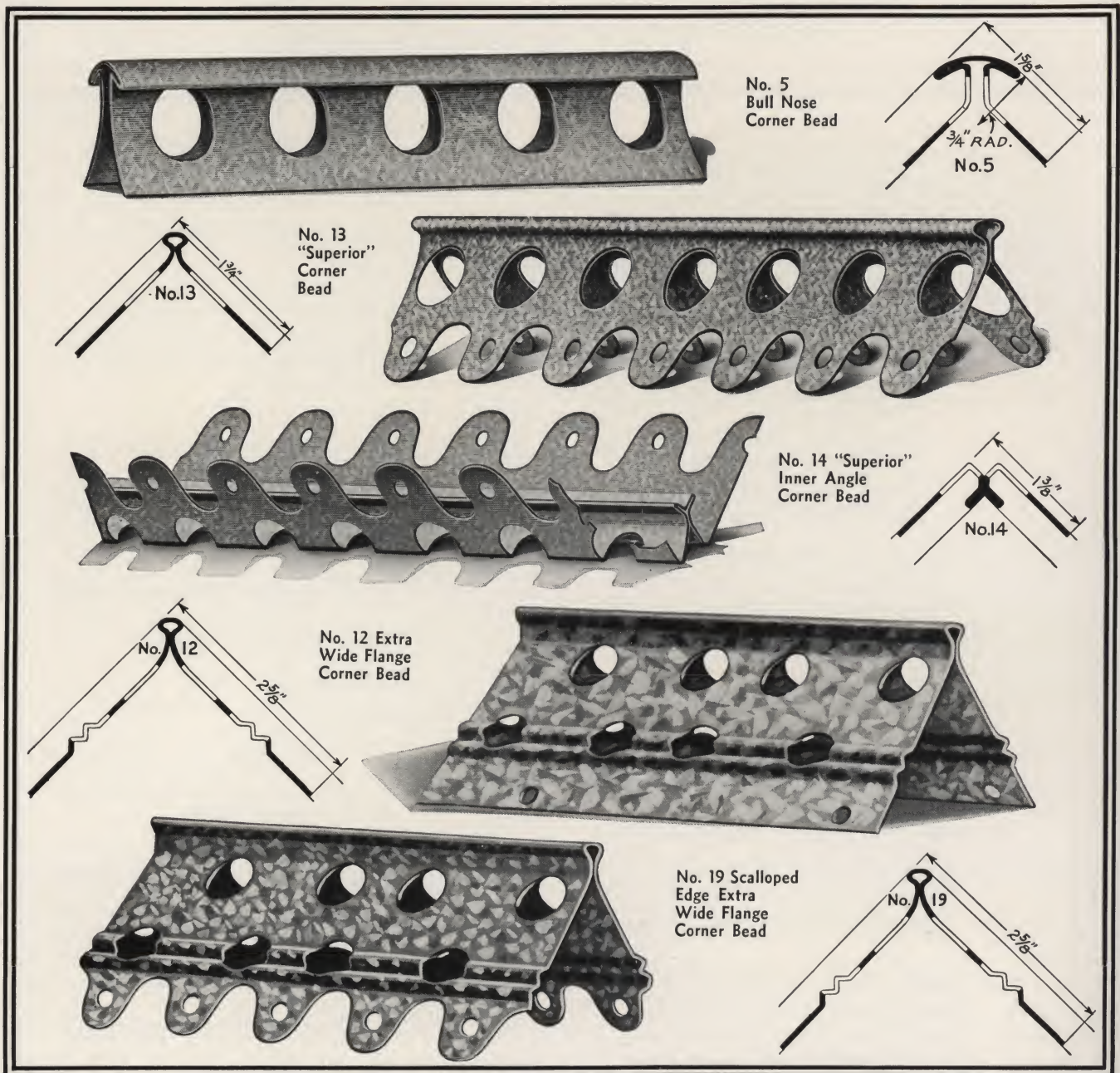
A firm, rigid metal dividing strip set between plaster and flush cement base with the advantages of 2 3/4-inch wings of strong mesh lath reinforcement against any possibility of cracks at juncture.

#### Materials, Weights, Etc.

Note: For complete description of materials, finishes, etc., see page 4.

SHEET STEEL, GALVANIZED; ARMCO INGOT IRON OR TONCAN IRON, 26-GAUGE GALVANIZED—230 lbs. per 1,000 lin. ft., 10 and 12 ft. long. Packed approximately 500 and 1,000 lin. ft. per crate. Also furnished in zinc and copper.

# Old-Style Metal Corner Beads, Etc.



Note: For complete description of materials, finishes, etc., see page 4.

## General Characteristics

For the less important work where cost is a prime factor and corner beads with the Milcor Patented Expansion Wings are not warranted, the Milcor Steel Company continues to manufacture a complete line of Old-Style Metal Corner Beads comparable in both material and design to the best of this type sold competitively.

### No. 5 Bull Nose Corner Bead

MATERIAL—No. 26 and No. 24 gauge sheet steel.  
LENGTHS—5, 6, 7, 8, 9, 10 and 12 feet.

APPROXIMATE WEIGHTS—No. 26 gauge—290 lbs. per 1,000 ft., crated; No. 24 gauge—410 lbs. per 1,000 ft., crated. Packed 500 and 1,000 lin. ft. per crate.

### Nos. 13 and 14 "Superior" Corner and Inner Angle Beads

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

APPROXIMATE WEIGHT—220 lbs. per 1,000 ft., crated. Packed ten pieces of uniform length to the bundle; 500 and 1,000 ft. per crate.

### No. 12 Extra Wide Flange Corner Bead and No. 19 Wide Flange Scalloped Edge Corner Bead

MATERIAL—Sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

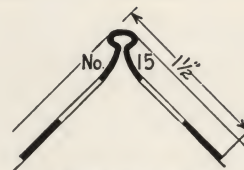
APPROXIMATE WEIGHT—370 lbs. per 1,000 ft. Packed 500 ft. per crate.

# Old-Style Metal Corner Beads, Screeds, Etc.

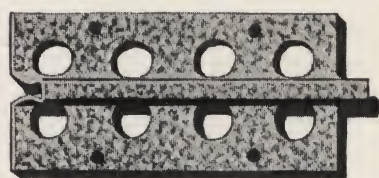
(For Corner Beads with Expansion Wings, see pages 15 to 18)



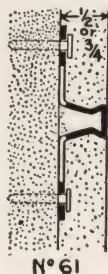
No. 15 "Milcor" Corner Bead



Profile of No. 15  
Corner Bead



No. 61 Wide Nose Base Screed

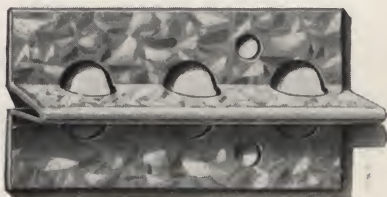


N° 61



Hump Corner  
Bead Clip  
(Black Steel)

Universal  
Corner  
Bead  
Clip  
(Gal-  
vanized)



Plain Base Screed



## No. 15 "Milcor" Corner Bead (Diamond)

MATERIAL—Sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

APPROXIMATE WEIGHT—185 lbs. per 1,000 ft., crated. Packed 500 and 1,000 ft. per crate.

## No. 61 Wide Nose Base Screed

MATERIAL—Sheet steel, galvanized.

LENGTHS—9 and 10 ft.

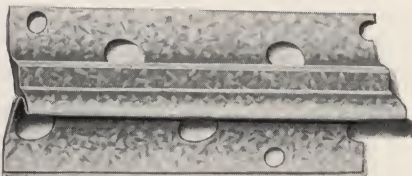
APPROXIMATE WEIGHT—195 lbs. per 1,000 ft., crated.

## No. 74 Plain Base Screed— $\frac{1}{2}$ -inch and $\frac{3}{4}$ -inch Grounds ( $\frac{5}{8}$ -inch Furnished if Desired)

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTHS—10 and 12 ft.

APPROXIMATE WEIGHT—175 lbs. per 1,000 ft., crated. Packed 1,000 (10 ft.) and 1,008 (12 ft.) per crate.



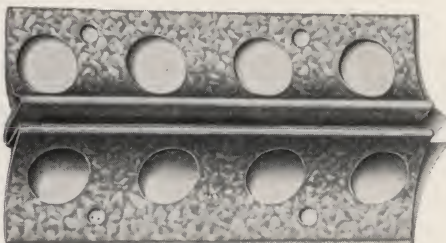
Curved Point Base Screed

## Curved Point Base Screed

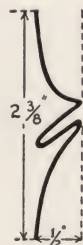
MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTHS—10 and 12 ft.

APPROXIMATE WEIGHT—195 lbs. per 1,000 ft., crated. Packed 1,000 (10 ft.) and 1,008 (12 ft.) per crate.



Concealed Picture Moulding



## Concealed Picture Mould

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTHS—10 and 12 ft.

APPROXIMATE WEIGHT—220 lbs. per 1,000 ft., crated. Packed 1,000 (10 ft.) and 1,008 (12 ft.) per crate.

# Expansion Casings (For Doors and Windows)

(For Expansion Feature, see page 4)

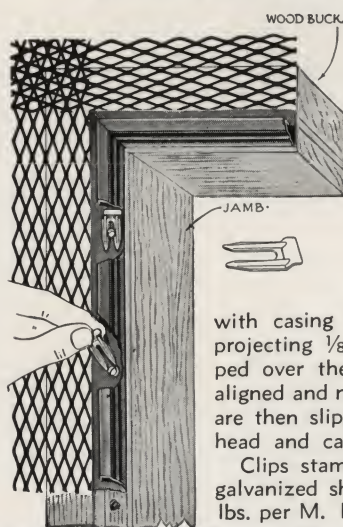


No. 6 O. G. Expansion Casing

Fabricated from tight coat galvanized open-hearth steel, Armco Ingot iron or Toncan iron. Lengths of 6, 7, 7½, 8, 9, 10 and 12 feet. Weight per 500 feet crated, 175 lbs. Patent No. 1,419,232.

Furnished with either 3½ or 5-in. Expanded Metal Wings.

## Expansion Casing Patent Locking Clip

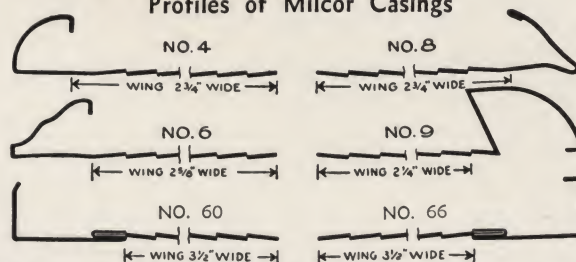


The Milcor Casing Clip locks Casings firmly to the jamb. Casings are punched with 1/8-in. round holes, 3 ins. on center. Round-head 3/4-in. No. 10 or No. 12 screws are driven into the wood jamb customarily 12 in. apart to coincide

with casing punchings with heads projecting 1/8 in. The casing is slipped over the screw heads properly aligned and nailed to the buck. Clips are then slipped between the screw head and casing and driven home.

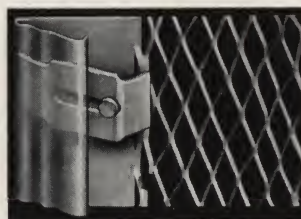
Clips stamped in one piece from galvanized sheet steel. Weight, 15 lbs. per M. Packed in cartons.

## Profiles of Milcor Casings



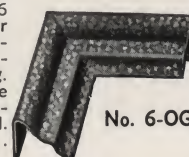
Casing Clip No. 2

The phantom view to the left shows Milcor Expansion Casing Clip No. 2 which can be used with all Milcor Casings and permits the nail to be placed where desired.



One-piece Miters for Expansion Casings No. 4, No. 6 and No. 9 for miter-joint reinforcement. Slip inside the casing. Stamped in one piece from galvanized sheet steel. Weight 80 lbs. per M.

One-piece Miters



## Description

Milcor Expansion Casings, due to the 3½ or 5-in. expanded metal wings, provide a close permanent bond at the juncture of casing and plaster definitely eliminating any possibility of cleavage cracks—an outstanding practical advantage over the old style solid metal casings.

Compared with wood architraves, their fireproof and sanitary advantages are obvious.

From the viewpoint of economy as compared to wood architraves, their initial cost is somewhat less—the installation labor cost is much less.

Architecturally, they add a pleasing note of simplicity to both the door and window treatment quite in line with modern trends.

## Specification Data

### Designs

Made in six designs—No. 4, Quarter Round; No. 6—O.G.; No. 8—O.G.; No. 9, Special Quarter Round, and Styles Nos. 60 and 66, as shown in cross sections above.

Styles Nos. 60 and 66 are made with and without

Expansion Wings in both 20 and 24-gauge metals, with 1/2, 5/8 and 3/4-in. grounds.

### Materials

SHEET STEEL, GALVANIZED—Nos. 4, 6, 8 and 9 cut from 24-gauge sheets. Nos. 60 and 66 cut from 20 and 24-gauge sheets.

ARMCO INGOT IRON OR TONCAN IRON, GALVANIZED—Cut from 24-gauge sheets.

PURE ZINC—Cut from No. 12 sheets.

COLD ROLLED COPPER—Cut from 16-oz. sheets.

### Lengths and Weights

7, 7½, 8, 9, 10 and 12 ft. long. Weight of designs No. 4, Quarter Round, No. 6—O.G.; No. 8—O.G.; and No. 9, Special Quarter Round—200 lbs. per 500 lin. ft., crated.

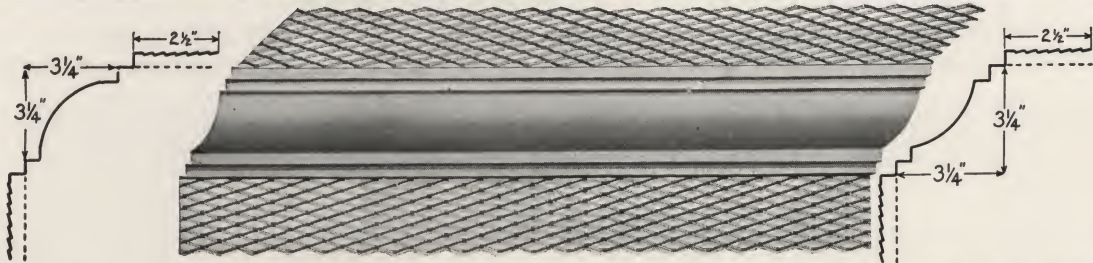
### Weights of Styles

	24-gauge	20-gauge
No. 60 (with Expansion Wings) . .	440	600
No. 66 (with Expansion Wings) . .	460	620
No. 60 (without Expansion Wings)	210	280
No. 66 (without Expansion Wings)	240	320

Lbs.  
per  
1000  
lin. ft.

MILCOR

# Expansion Cornice Lath



In its Expansion Cornice Lath, Milcor has perfected a new Metal Cornice which may be permanently keyed to the plaster on wall and ceiling by means of expanded metal wings. Being made of metal this cornice cannot warp or crack. Milcor Expansion Wings on each side prevent the development of cracks at juncture of wall and ceiling.

A simple and effective method of joining sections has been developed through the use of a splice plate similar to that made for joining metal bases. When properly painted the joint is practically invisible.

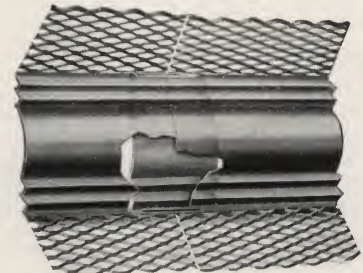
Inside and outside miters for Milcor Expansion Cornice Lath are made at the factory to insure perfection. They are joined to sections with splice plates. See illustration on page 2 showing Cornice Lath and Miters.

## Designs

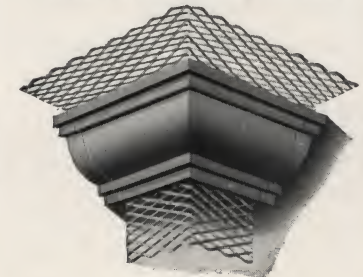
Milcor Expansion Cornice Lath is made in two styles, convex and concave. Lead-coated terne sheets are used which will receive and hold paint to harmonize with walls and ceiling.

## Lengths and Weights

Stocked in 10 ft. lengths only.  
Weight of 500 ft. crate—300 lbs.  
Packed 500 ft. per crate.



Splice Plate for Joining Sections



Miter



Corner Lath



Lath Strip

## MILCOR Diamond-Mesh Expanded Corner Lath

(FOR INNER CORNERS  
AND CEILING ANGLES)

## and Lath Strips

## Specification Data

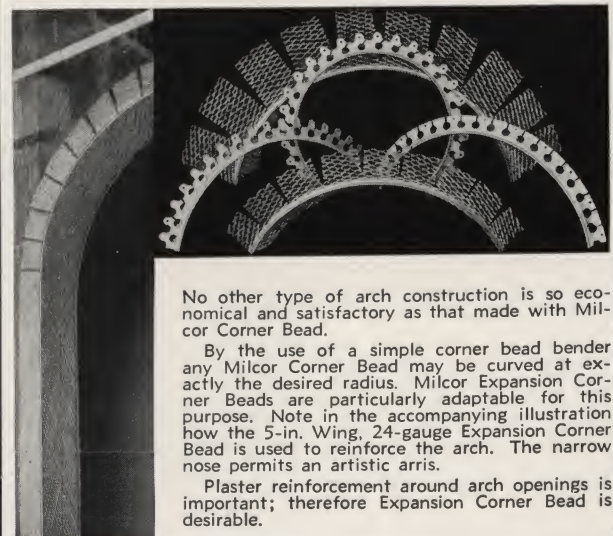
### General Characteristics

Milcor Corner Lath consists of strips of Netmesh (see page 4) 3/8-in. diamond expanded lath with finished edges—not rough or ragged. Required as reinforcing over all re-entrant angles over wood or rib metal lath where inner angle bead is not used for the same purpose.

**SIZES**—Corner Lath have 3 and 4-in. wing width and are 8 ft. long. Lath Strips are 3, 4 or 6 ins. wide and 8 ft. long. Packed approximately 500 lin. ft. per crate.

**MATERIALS**—Sheet steel, painted or galvanized; copper alloy steel; Armco Ingot Iron or Toncan Iron, painted or galvanized.

## Metal Arches



No other type of arch construction is so economical and satisfactory as that made with Milcor Corner Bead.

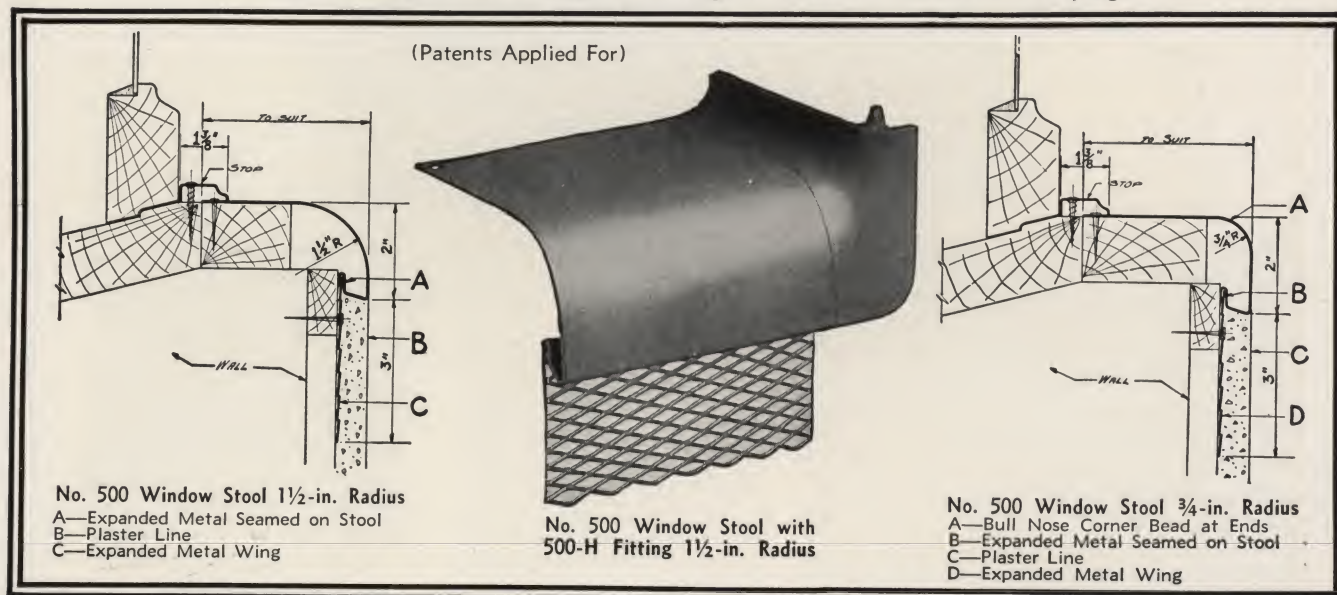
By the use of a simple corner bead bender any Milcor Corner Bead may be curved at exactly the desired radius. Milcor Expansion Corner Beads are particularly adaptable for this purpose. Note in the accompanying illustration how the 5-in. Wing, 24-gauge Expansion Corner Bead is used to reinforce the arch. The narrow nose permits an artistic arris.

Plaster reinforcement around arch openings is important; therefore Expansion Corner Bead is desirable.

# Window Trim and Stools -- No. 500 Series

No. 500—With Expanded Metal Flange      No. 501—With Standard Flange  
No. 502—With Movable Nailing Clip

(See Three Types of Flanges in diagram below in center of page)



## Description

### General Characteristics

Milcor No. 500 Series Trim and Stools provide suitable construction for modern public buildings, schools, hospitals, institutions, hotels, apartments, offices and industrial buildings. The natural qualities of the metal surface provide sanitation, fire safety and attractive appearance while the Expansion Wing offers permanent protection against cracks and cleavage.

### Types

Curved Metal Window Trim No. 500 is made in two sizes, one with a 3/4-in. radius and one with a 1 1/2-in. radius. Cross section diagrams of each of these sizes (shown above) are exactly one-half actual size.

This Window Trim may be used as a Window Stool in connection with other Milcor Products or as complete trim for the window.

### Stool Variations

**PLASTER JAMBS**—The No. 500 3/4-in. Radius Stool is provided with fittings so that a No. 10 Bull Nose Expansion Corner Bead (see page 15) may be substituted for the metal jambs and head, providing a bull nosed angle plaster jamb.

**WOOD JAMBS**—The No. 500 3/4-inch Radius Stool may likewise be combined with wood jambs and

No. 4 (Quarter Round) Expansion Casings (see page 20).

**FLAT STOOL**—Either the No. 500 3/4-in. Radius or 1 1/2-in. Radius Metal Jamb and Trim may be used in conjunction with the Milcor Flat Metal Window Stool shown on page 24.

## Specification Data

### Materials

**TRIM**—Sheet steel galvanized and primed with a special gray, primer for subsequent painter's finish.

**FITTINGS**—Best grade of gray cast iron, sand blasted, machined, and primed.

### Gauges

20, 18, 16, 14 and 12 gauge as specified. Stools lighter than 14 gauge should be cement mortar grouted. Specify at least 18 gauge for stools with reveal widths up to 4 in. and up to 5 ft. in length—for greater reveal width and length, specify 16, 14 or 12 gauge as best suited to the type of building.

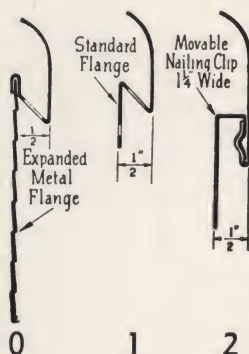
### Lengths

Lengths from 1 ft. up to 10 ft. in multiples of 6 in. Lengths over 10 ft. furnished with a splice.

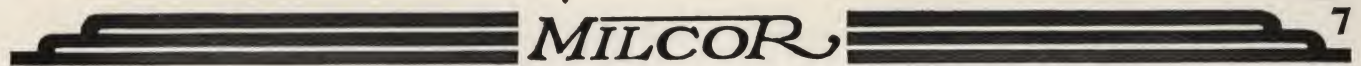
### Fabrication

When assembled in our shop the fittings are electrically welded to the trim. They are welded from the under side only. This makes a neat, exceedingly strong unit in which the exposed surface of the trim is not marred by bolt heads. When shipped for field assembly the trim is first set up in our shop by means of counter-sunk bolt connections and then knocked down for shipment. We strongly recommend shop assembly for strength and neatness.

## Three Types of Flanges



All flush type bases and window stools are available with three different types of metal flanges as shown. Each type is designated by the suffix indicated



# Curved Metal Window Trim and Stool

No. 500 Series



FITTINGS FOR NO. 500 WINDOW TRIM AND STOOL



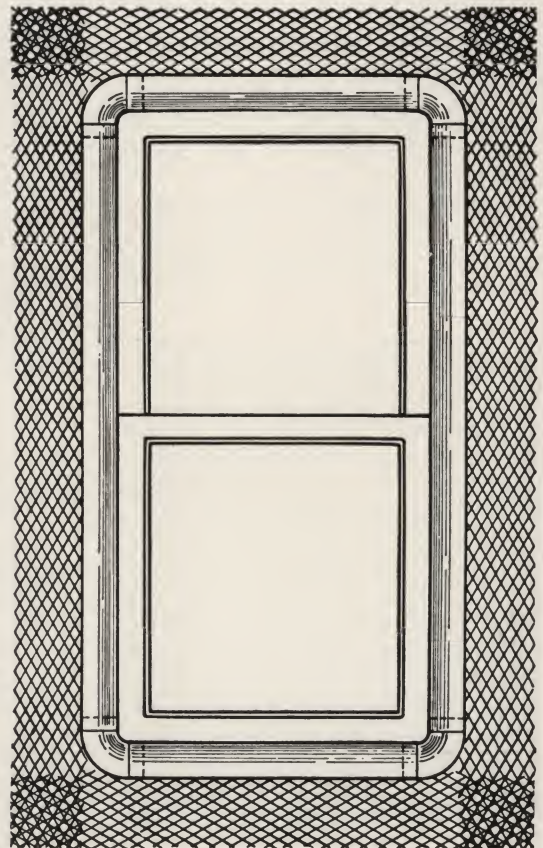
"A"—No. 500 Curved Stool; "D"—Left End Fitting, "E"— $\frac{3}{4}$ -in. Nose of Bull Nose Expansion Corner Bead No. 10; "E-1"—Expanded Metal Wings of Bead

## Used As Stool or Complete Trim

Sketch at right shows No. 500 Window Stool and Fittings used as a complete window trim. Fittings Nos. 50-A and 50-B ( $\frac{3}{4}$  and  $1\frac{1}{2}$ -in. radius respectively) may be used for this purpose.

Fittings Nos. 50-C and 50-D are right and left respectively for a  $1\frac{1}{2}$ -in. radius stool with a  $\frac{3}{4}$ -in. radius trim. These fittings will permit the use of a  $\frac{3}{4}$ -in. trim all around the window except the stool which may be  $\frac{1}{2}$ -in. radius.

Other variations may be made with the use of Milcor Casing and Bull Nose Expansion Corner Bead.



No. 500 Window Stool and Fittings

## Splay Window Stools

### No. 510 Series

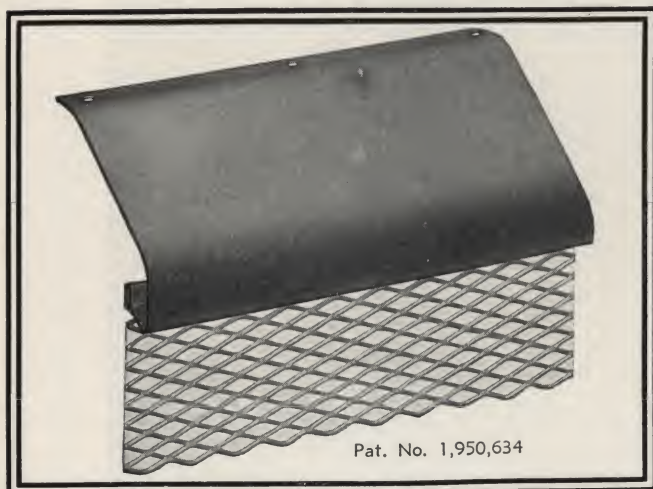
- No. 510—With Expanded Metal Flange  
No. 511—With Standard Flange  
No. 512—With Movable Nailing Clip

(See diagram showing flanges on page 22)

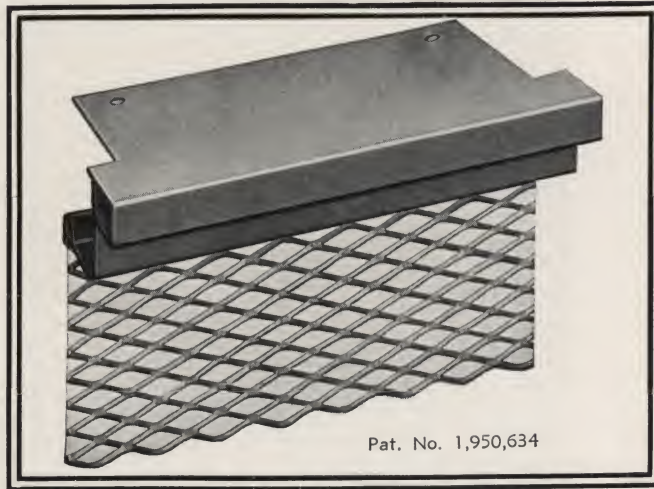
## Flat Window Stools

### No. 520 Series

- No. 520—With Expanded Metal Flange  
No. 521—With Standard Flange  
No. 522—With Movable Nailing Clip

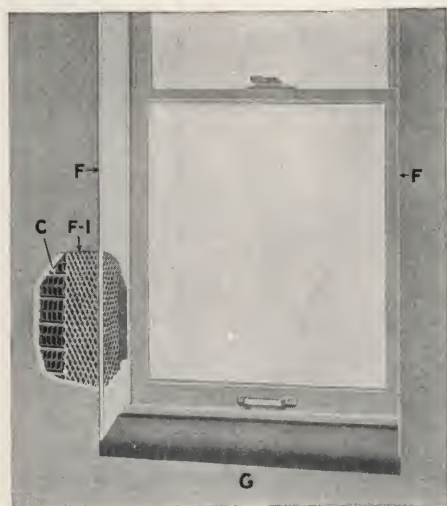
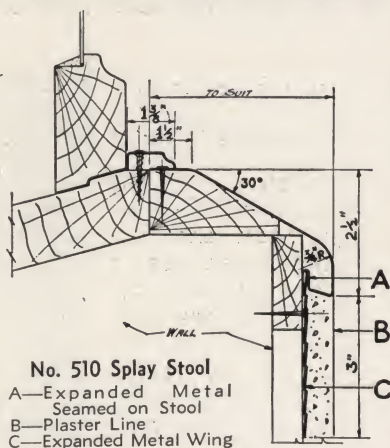


Pat. No. 1,950,634

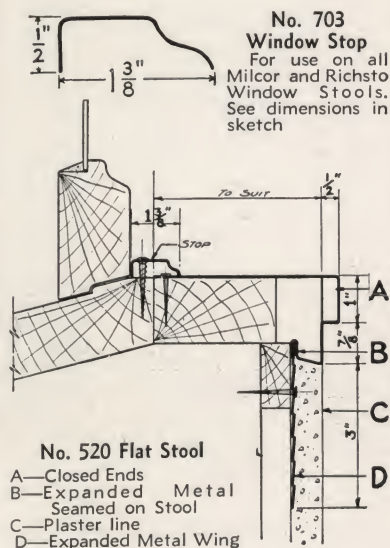


Pat. No. 1,950,634

This substantial Splay Metal Window Stool will be found practical and acceptable in places where flat or curved Window Stools are not desired. More light will be admitted to a room (where walls are thick) when a Window Stool of this type is used. The angle of the Splay (see sketch) prevents this stool being used as a shelf. Cross section diagram is exactly  $\frac{1}{2}$  size. See page 4 for general specifications. Note use of No. 703 Window Stop.



Milcor Splay Metal Window Stool No. 510 with Expansion Corner Bead No. 1, used as trim  
"G"—No. 510 Splay Stool; "F"—Nose of Expansion Corner Bead No. 1 in plaster-reveal; "F-1"—Expanded metal wings of Expansion Corner Bead; "C"—Milcor Stay-Rib Metal Lath No. 1



The No. 520 Series Flat Window Stool is made for  $\frac{1}{2}$ ,  $\frac{5}{8}$  and  $\frac{3}{4}$ -in. grounds as specified. Closures for the ends are furnished without extra charge. Cement grouting is recommended for good construction.

No special fittings are required to connect the jambs with this stool as the jambs rest on the flat surface of the stool. Milcor Bull Nose Expansion Wing Bead No. 10, or No. 1 mitered to fit, makes the most desirable jamb. This Window Stool may be applied with Metal Window Trim No. 500.



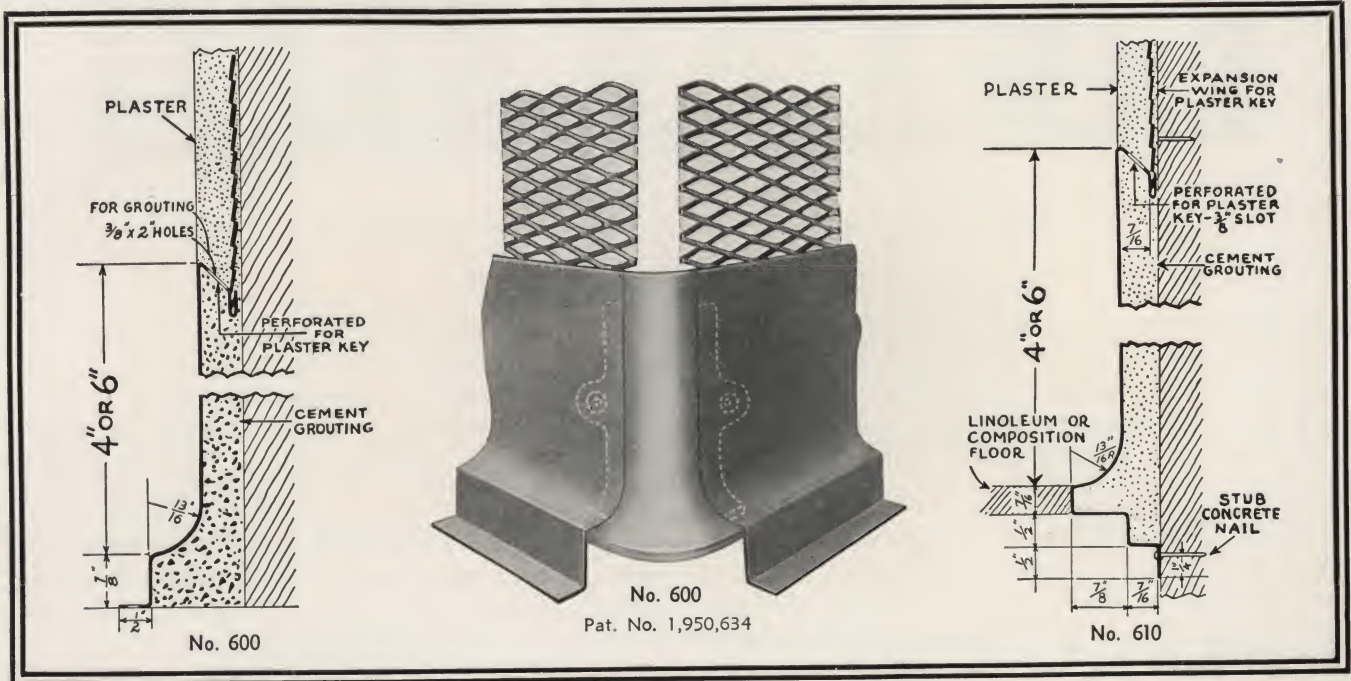
No. 520 Flat Metal Window Stool Used with No. 500 as Trim

"H"—No. 520 Flat Metal Window Stool;  
"A"—No. 500 Curved Stool used as trim; "B"—No. 500-A and B Corner Fittings; "C"—Expansion Wing attached to No. 500 Window Trim

# Flush Metal Bases Nos. 600 and 610 Series

(Patents Applied For)

Furnished with three types of Plaster Flanges the same as Metal Window Stools (see page 22). Base Flanges identified by Suffixes "O," "1" and "2" in manner similar to Window Stools.



## Description

### General Characteristics

Milcor Metal Bases with Patented Expansion Feature (see page 4) overcome definitely any possibility of cleavage at the juncture between the top of the base and the plaster wall. In addition the expanded metal wing thoroughly reinforces the plaster at the most vital point. Grout fill is easily installed through the slotted ( $\frac{3}{8}$  in. x 2 in.) top after the base is erected.

The base is furnished with a complete line of flush fittings for angles, plinths, splices, end stops, etc. In addition to its attractive appearance, its sanitary and fireproof characteristics adapt it ideally to use in public buildings, schools, hospitals, institutions, hotels, and commercial buildings. See illustration on page 2 showing interior with No. 600 Base and Fittings.

### Types

All Milcor and Richsto Metal Bases except the removable type are available with any of three types of Metal Flanges for fastening the base to the wall. Cross section views of Expanded Metal Flange, Standard Flange and Movable Nailing Clip are shown in sketch on page 22. Flange desired should be clearly specified. If no specification is made, Standard Flange will be furnished.

The Metal Bases in the 600 and 610 groups are numbered 601 and 611 because they have the standard flange. No. 602 has exactly the same contour but utilizes the movable nailing strip for attaching to the wall.

The 610 Series is identical with the 600 Series except that the lower end is attached to the wall instead of to the floor. Bases in this series are as follows:

- No. 610 (with Expanded Metal Flange)
- No. 611 (with Standard Flange, illustrated)
- No. 612 (with Movable Nailing Strip).

## Specification Data

### Materials, Gauges, Etc.

Note: For complete description of materials, finishes, etc., see page 4.

BASE—Sheet steel galvanized and primed with a special gray primer for subsequent painter's finish.

FITTINGS—Best grade of smooth gray cast iron, sand blasted, machined, and primed.

### Gauges and Lengths

20 and 18 gauge; length, 10 ft.

### Installation

The base should be installed with the use of special tools which may be rented from the manufacturer, consisting of a specially designed miter box saw and a special punch for aligning the holes in base to fit accurately the holes in fittings. Base and fittings are bolted together—exposed flat head bolts are counter-sunk.

## MILCOR Flush Metal Bases



### Four and Six-inch Fittings for Nos. 600 and 610 Series

(Read left to right in above illustration)

No. 600-A	Square. Inside cast iron corner.	No. 600-F	1 1/2-in. radius. Outside cast iron corner.
No. 600-B	Square. Outside cast iron corner.	No. 600-H	Left hand. End stop cast iron.
No. 600-C	3/4-in. radius. Inside cast iron corner.	No. 600-J	Right hand. End stop cast iron.
No. 600-D	3/4-in. radius. Outside cast iron corner.	No. 600-M	Right side. Plinth cast iron for No. 4 casing.
No. 600-E	1 1/2-in. radius. Inside cast iron corner.	No. 600-N	Left side. Plinth cast iron for No. 4 casing.

Milcor Corner Fittings for right angles both external and internal, as well as terminating points of base part, are furnished as illustrated in this book. Special angles should be taken care of by mitering or coping. Special fittings for odd usages or unusual

corners may be furnished if a sufficient number is required to justify patterns. As a rule, however, special angle corners on any job may be made by a skilled workman when the base is being installed.

## MILCOR Removable Metal Bases No. 644

### For Existing Buildings

The Milcor Removable Base No. 644 may be used with equal success in new or old buildings. The application of these bases is comparatively simple and their use enhances the appearance of any interior. They are a very important factor in modernizing old buildings.

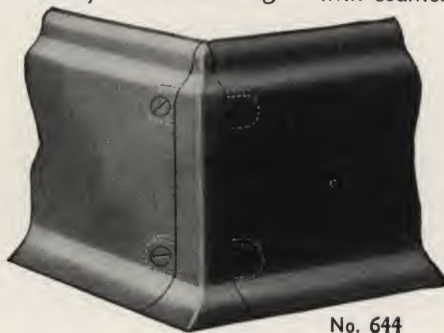
This type of metal base is economically installed because it may be applied after the plastered wall and the flooring have been completed. One or two wooden plaster grounds in the wall, as required according to the type of base used, are necessary for attaching. The design of the base makes a furring strip unnecessary. The bottom flange holds the base in proper position from the wall.

The 4-in. base is attached to the wall by a single screw in the center of the base. Fittings in both the 4- and 6-in. bases are applied with screws at top and bottom. Although

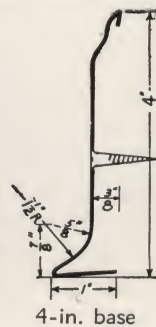
screws at top and bottom of the 4-in. base are considered unnecessary except in connection with fittings, they may be used if desired and the base punched accordingly on the job.

#### Specification Data

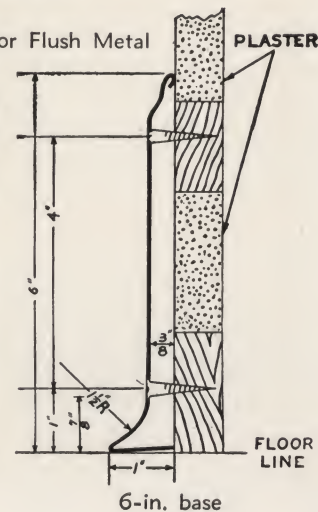
Same as given on page 25 for Flush Metal Bases, except that base is attached to fittings with countersunk machine screws and the base is attached to wood grounds (1 1/2 or 2 in. wide) with countersunk wood screws.



No. 644



4-in. base



6-in. base

MILCOR

# MILCOR CHAIR RAIL NO. 760

for SCHOOLS, OFFICES and PUBLIC BUILDINGS

Metal Chair Rails keep furniture from disfiguring the plastered walls and also form the top of a wainscot. They are quite necessary in schools and public buildings of all kinds.

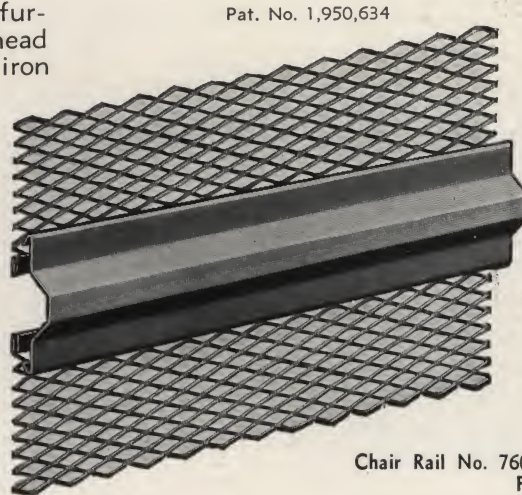
Made from 20 gauge Steel, gray primed, and furnished in 10 ft. lengths. No. 10,  $\frac{3}{8}$ -in. flat head machine screws furnished for attaching cast iron fittings.

## FITTINGS FOR NO. 760 SERIES CHAIR RAILS

- No. 760-A— $\frac{3}{4}$ -in. radius. In-side cast iron corner.
- No. 760-B— $\frac{3}{4}$ -in. radius. Out-side cast iron corner.
- No. 760-C— $1\frac{1}{2}$ -in. radius. In-side cast iron corner.
- No. 760-D— $1\frac{1}{2}$ -in. radius. Out-side cast iron corner.
- No. 760-E—Square. Outside cast iron corner.
- No. 760-F—Square. Inside cast iron corner.
- No. 760-I—Right end. End stop cast iron.
- No. 760-J—Left End. End stop cast iron.

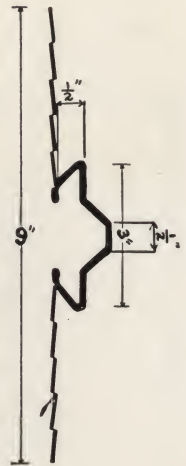


Profile View of Chair Rail Without Expansion Wings



Pat. No. 1,950,634

Chair Rail No. 760 with Expanded Metal Flange



# MILCOR CASING NO. 645

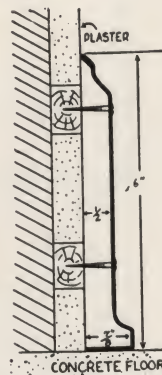
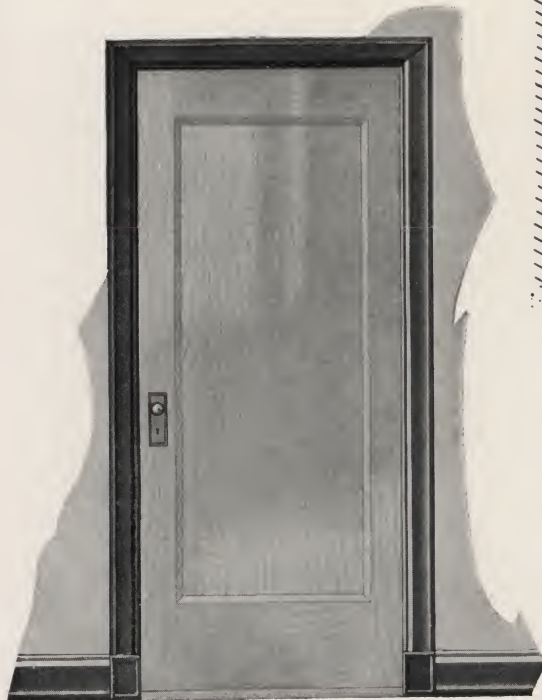
for DOORS and WINDOWS

In addition to its use as a metal base the No. 645 may be used as door or window casing. The window installation shown below depicts this casing used in

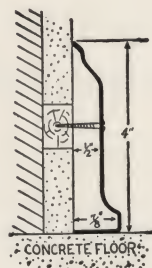
conjunction with No. 524 Window Stool. Note also in this illustration the use of the No. 645 as a wall base, the combination of casing and base producing an interior effect of considerable merit.

The width of the No. 645 Casing is 4 in. Made from 20-gauge Steel, gray primed, and furnished in 6, 7,  $7\frac{1}{2}$ , 8, 9 and 10 ft. lengths.

Casing No. 645 is mitered on the job.

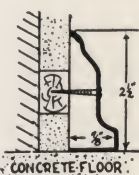


No. 645  
6-in. Base

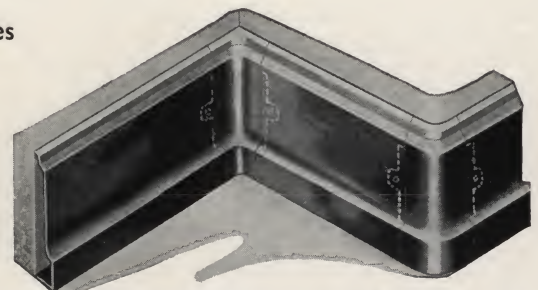


No. 645  
4-in. Base

## Cross Section Profiles



No. 645  
 $2\frac{1}{2}$ -in. base



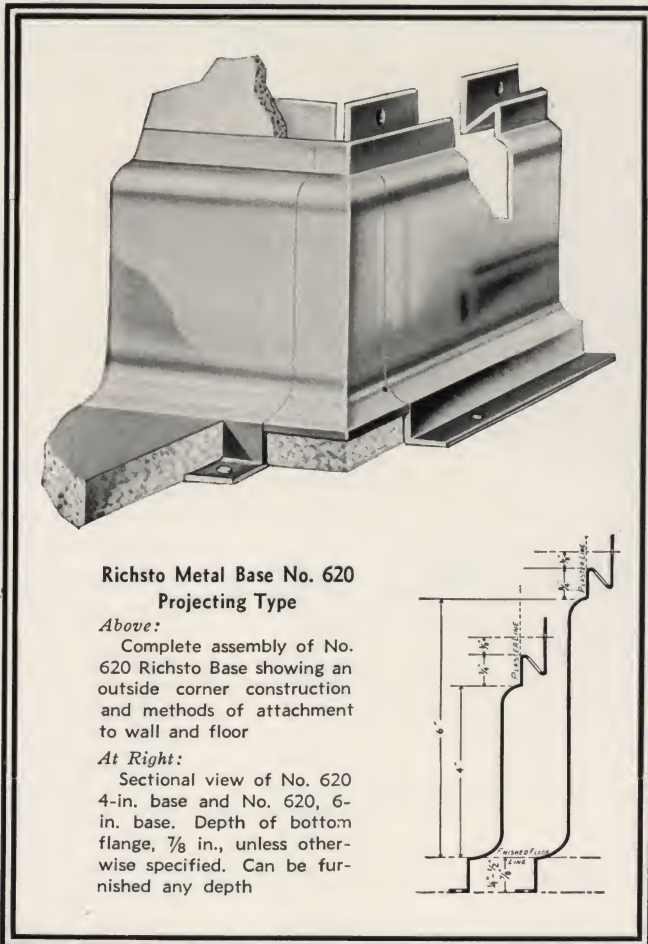
Complete construction assembly of 645 Base with corner fittings—outside round, inside square corner

## NO. 620 METAL BASE

(See Page 25 for Plaster Flange Information)

### Projecting Type

- No. 620—With Expanded Metal Flange  
No. 621—With Standard Flange (Illustrated)  
No. 622—With Movable Nailing Clip



**Richsto Metal Base No. 620**  
**Projecting Type**

*Above:*

Complete assembly of No. 620 Richsto Base showing an outside corner construction and methods of attachment to wall and floor

*At Right:*

Sectional view of No. 620 4-in. base and No. 620, 6-in. base. Depth of bottom flange,  $\frac{7}{8}$  in., unless otherwise specified. Can be furnished any depth

### Description

The No. 620 style of base design appeals to many architects and designers because the projection of the base out from the plaster line gives an additional trim effect to the room. The old wood base had to be installed in front of the plaster line and many persons are used to and prefer this appearance.

The No. 620 design is just as practical as other flush-with-plaster type metal bases. Diagram shows dimensions of both 4-in. and 6-in. styles exactly one-half actual sizes.

### Specification Data

Same as given on page 25 for Flush Metal Bases.

Most Milcor and Richsto Metal Trim Products are available with any of three different types of Metal Flanges for fastening the trim to the wall.

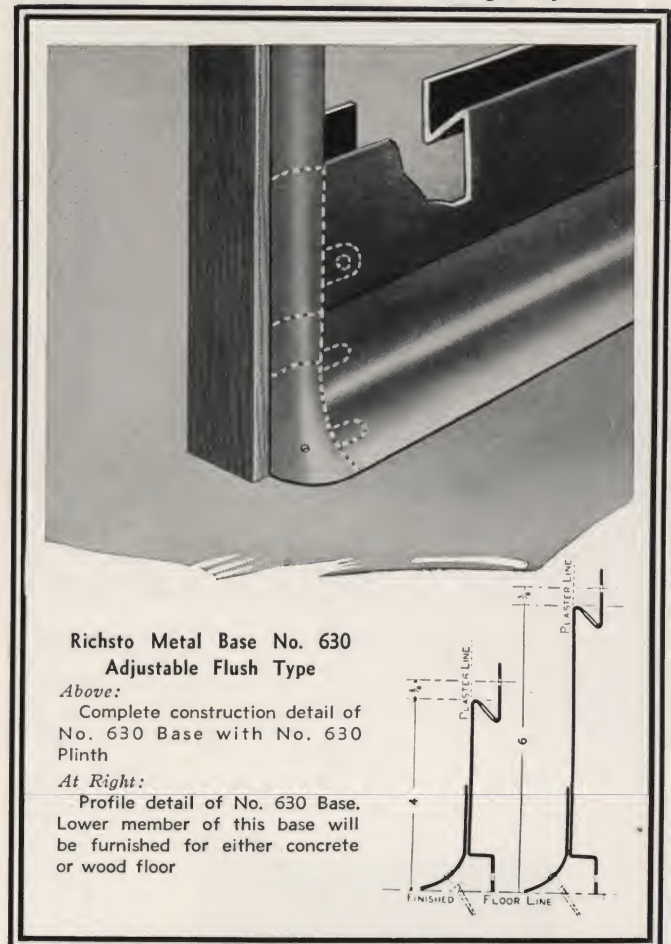
Obviously the most practical of these is the Expanded Metal Flange which in many cases is formed as an integral part spot-welded to the exposed moulding. The advantage of this expansion flange lies principally in its function as a permanent plaster bond whose network of expanded steel prevents checking and cracking of plaster at the vulnerable points.

## NO. 630 METAL BASE

(See Page 25 for Plaster Flange Information)

### Adjustable Flush Type

- No. 630—With Expanded Metal Flange  
No. 631—With Standard Flange (Illustrated)  
No. 632—With Movable Nailing Clip



**Richsto Metal Base No. 630**  
**Adjustable Flush Type**

*Above:*

Complete construction detail of No. 630 Base with No. 630 Plinth

*At Right:*

Profile detail of No. 630 Base. Lower member of this cove member will be furnished for either concrete or wood floor

### Description

Bases in the 630 Series are especially suitable for wood or Linoleum floors. The bases are of the Flush type and are provided with an adjustable bottom cove mould. Where base is applied before plastering, the Cove member is either raised or removed so that the form may be laid under it. The lower part of the base may be erected after plastering and after the floor is laid by the use of wood screws as shown in detail below. Necessary 1 in. No. 5 wood screws are furnished for the cove of this base. Special lock screws make it possible to tighten this cove member from time to time. This assures the tight base even under conditions of shrinking or settlement of the floor.

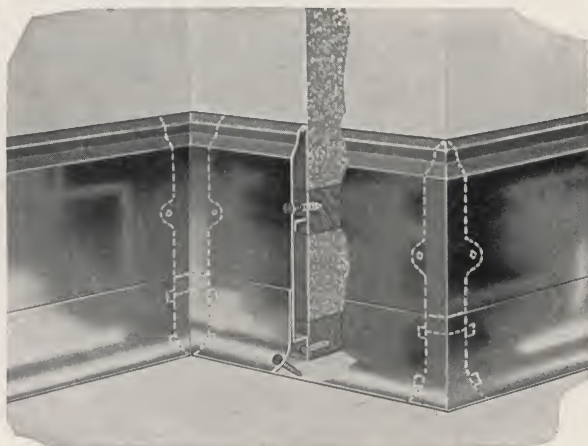
Specify whether base is to be used for cement or wood floor, so proper lower cove will be furnished. Note different construction in diagrams.

### Specification Data

Same as given on page 25, except that cove section may be erected after floor is laid.

## NO. 643 METAL BASE

Adjustable Offset Type

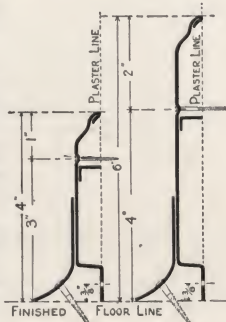


Above is pictured complete construction and erection detail for No. 643 Base.

Dotted white lines show inside and outside corner fittings. These fittings conform perfectly to the contour of the base itself so they are practically invisible in the completely installed and painted metal base.

Profile construction of erection of No. 643 base in both 4-in. and 6-in. types. Nailing Grounds may fasten the cove element to the wall or to the floor. Lower member of this base can be furnished for either concrete or wood floor.

Note the welded furring strips which do away with the necessity of wood furring. Plenty of space is afforded behind the base for running concealed telephone wires.



## NO. 654 COVE MOULD

For Remodeling Old Buildings

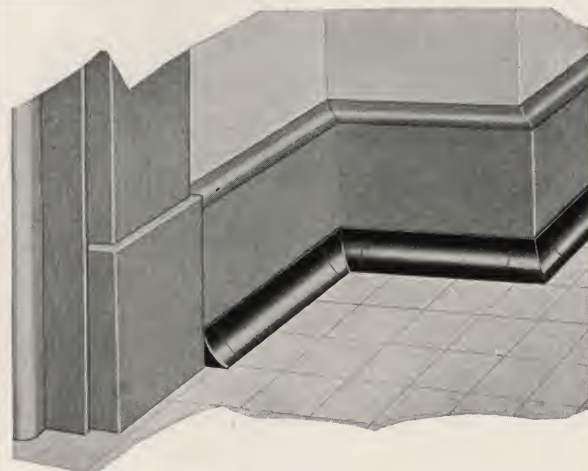
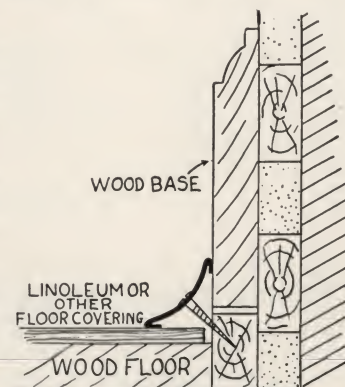


Illustration of complete installation of No. 654 Cove Mould. Note the fittings which match the contour of the mould perfectly. Inside and outside fittings are furnished in both square cornered and round cornered styles. Splice plates join sections to insure perfect alignment.

Profile view to the right shows the adaptability of the No. 654 Cove Mould for remodeling old buildings. This mould eliminates cracks and openings where wood shrinkage has taken place.



## General Characteristics

This adjustable type base is used frequently with wood or linoleum and is especially designed for use in construction where shrinkage or settlement is likely to be excessive. It is favored by many where wooden joint construction is used; and also finds frequent application in office buildings because of affording opportunity to run telephone wires around a room, concealed behind the base. The adjustable Bottom Cove Member makes it highly desirable for wood or linoleum floors. This base is applied after plastering.

Inasmuch as the lower part of the base itself and also the lower coves are made differently for wood floors than for concrete floors, it is important to specify the type of floor to be used.

## Types

Made in 4-in. and 6-in. sizes. See diagrams giving dimensions.

## General Characteristics

This type of Cove Mould has many uses. It is quickly installed and moderate in cost. Frequently it is used in connection with wooden bases already installed. It is especially adapted for use with wood floors but is equally well suited for use over linoleum or carpet.

## Types

Cove No. 654, 2- and 3-in. sizes, made in 24-gauge steel with gray priming coat. Furnished with No. 5, 1 1/4-in. oval head wood screws.

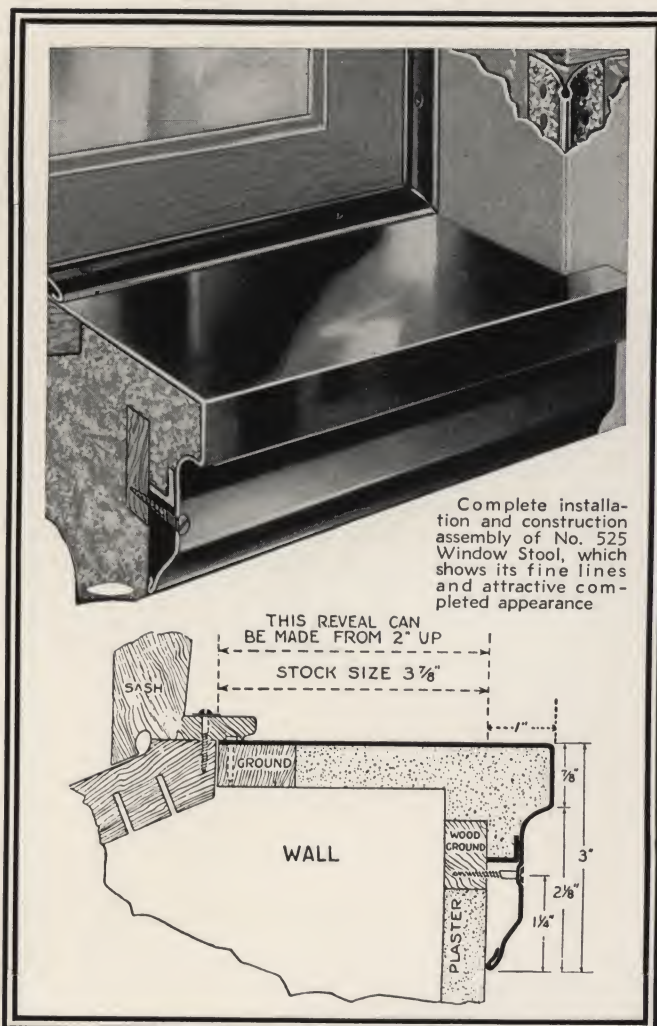
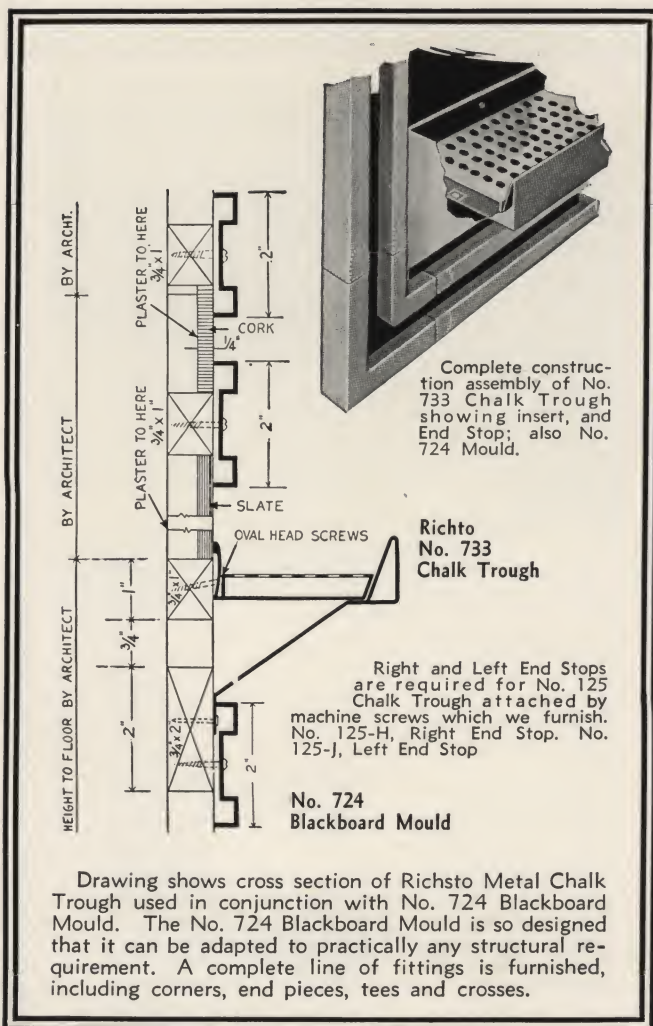
All Milcor Coves and Moulds are also made in brass, aluminum and stainless steel.

## Specification Data

Installed with wood screws right over old floor and wood base. Complete set of cast fittings furnished.

## NO. 733 METAL CHALK TROUGH

## NO. 525 WINDOW STOOL—NEW STYLE



### General Characteristics

These Chalk Troughs and Blackboard Moulds provide the advantages on pre-fabricated metal construction in addition to the practical features of the special Richsto design which permit a wide variance of application. The Perforated Screen Insert (No. 733) is furnished in 3, 4, and 5-ft. lengths, and may also be used in wood troughs.

### Specification Data

#### Materials, Gauges, Etc.

Made of 24-gauge tight coated galvanized sheet steel. Exposed surfaces primed with special gray primer.

#### Lengths

Furnished in 6, 8 and 10-ft. stock lengths. Splices furnished to extent of one per 12 ft. of Chalk Trough.

#### Installation

No. 5,  $\frac{3}{4}$ -in. oval head wood screws furnished for attaching upper flange to wood grounds. Right and left stops are attached with machine screws.

#### Fittings

No. 733-H—Right End Stop.  
No. 733-J—Left End Stop.

### General Characteristics

No. 525 Window Stool may be installed either before or after plastering. It is a wide deep stool, artistic in design. Has 1-in. projection beyond plaster line. Furring strip is welded to apron and reinforces it.  $1\frac{1}{2}$ -in. No. 5 wood screws are furnished for the apron. Stool is simple in design, easy to erect, and exceptionally pleasing in its finished effect. Ends are closed with 20-gauge galvanized steel. Can be furnished in any reveal 2 in. or more.

### Specification Data

Note: See page 22 for general data on Materials, Gauges, Lengths and Fabrication.

#### Installation

Stools should be filled at time of setting with cement or mortar. Installation can be made either before or after plastering, which depends upon the construction.

## METAL CASING MOULDS

## NO. 65 CORNER GROUNDS

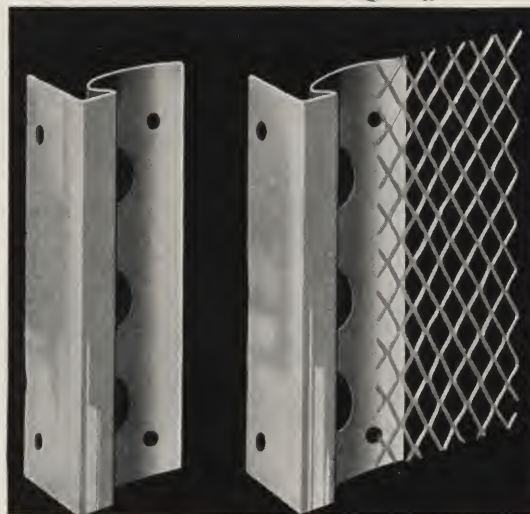


No. 705

No. 704



No. 706



No. 65

No. 65 with Expansion Flange

### Metal Casing Moulds

These moulds find many applications in connection with metal casings. By having the casings a separate unit from the mould, building vibration is broken up and sudden jars from slamming doors are not transmitted to the plaster.

No. 705—Casing Mould, 20-gauge steel,  $\frac{3}{4}$  in. wide. Can be used wherever No. 706 Mould is used. Offers features of economy.

No. 704—Mould, 24-gauge steel,  $\frac{7}{8}$  in. wide. Used as an alternative for No. 706 Mould.

No. 706—Mould, 20-gauge,  $1\frac{1}{8}$  in. wide. Generally used with casings.

Screw hole space 11 in. on centers; necessary screws furnished on above.

Standard Lengths: 6 ft., 7 ft., 7 ft. 6 in., 8, 9, 10 and 12 ft.

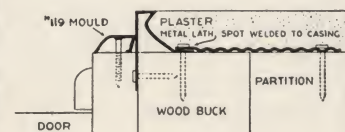
### Corner Grounds

The two types of corner grounds illustrated are sanitary, easily installed, low priced and meet a very real demand.

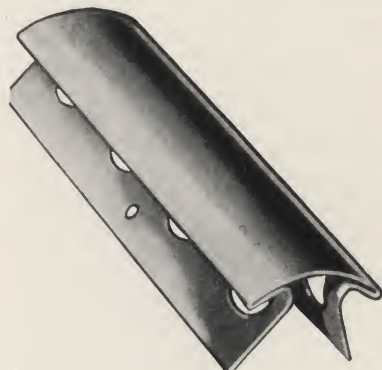
No. 65 Corner Grounds.

Made in 26-gauge and 24-gauge steel. Flange  $1\frac{1}{4}$  in.

No. 65 Corner with Grounds-Expansion Flange. Made in 26-gauge and 24-gauge steel.

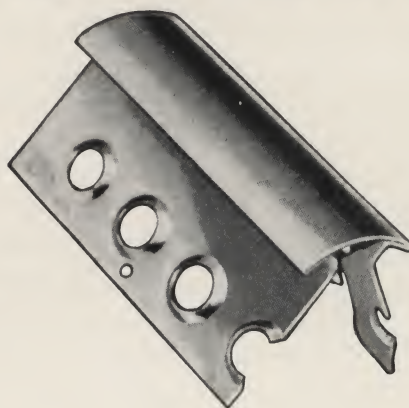


## CORNER BEADS



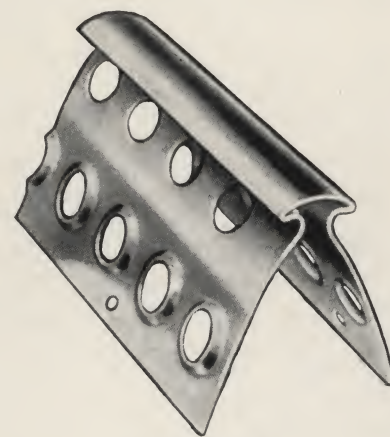
No. 53

Bull Nose Bead.  $1\frac{1}{2}$ -in. radius, 26 or 24-gauge.  $1\frac{3}{4}$ -in. length of flange. Richsto No. 123 Clip required. Clips extra.



No. 44

Bull Nose Bead.  $1\frac{1}{2}$ -in. radius, 24 or 26-gauge. Improved long flange 3 in. Cone shaped perforations form a perfect key.



Nos. 31 and 41

No. 31 Bull Nose Bead.  $\frac{3}{4}$ -in. radius, 24-gauge. Length of flange 3 in. Cone shaped perforations form a perfect key. No. 310—reinforced nose—same specifications as No. 31 except for 20-gauge reinforced nose.

No. 41—Same as No. 31, except 26 gauge.

Standard Lengths: 6, 7, 8, 9, 10 and 12 ft.

# MILCOR Silvercote Insulating Plaster Base

For details of Silvercote Insulation, see catalog of Silvercote Products, Inc.

This modern combination insulation and plaster base development consists of highly reflective, corrosion-proof insulation combined with Milcor metal lath—the recognized plaster base.

The purpose, advantages and practical application of this duplex medium are best appreciated after a study of the thermal principles involved.

## The Principles on Which the Insulation Value of Milcor Silvercote Is Based

The function of reflective insulation is to **reflect** or **rebound** heat at the surface of the material, thus permitting as little as possible to pass through. For this reason the thickness of a reflective material is not a factor in its insulation value, as long as it is strong enough to be practical in construction work.

### Principle of Reflective Insulation

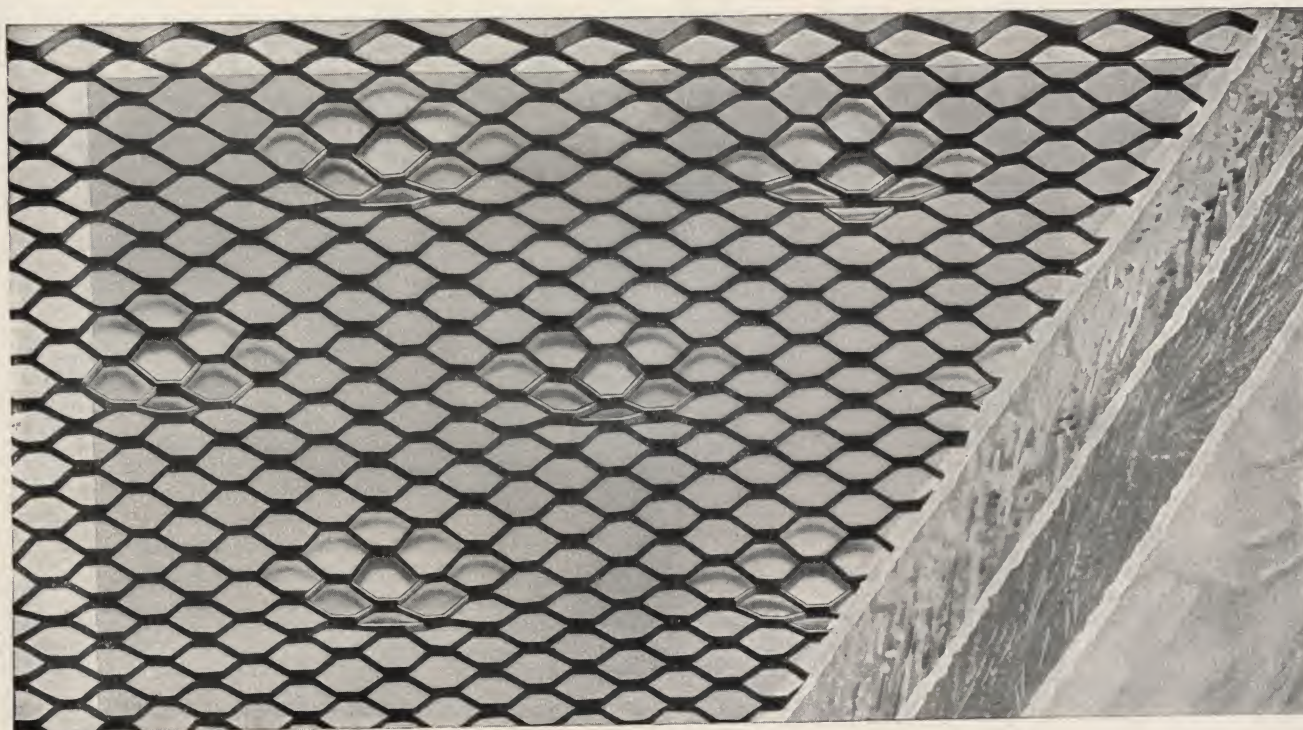
A highly homogeneous reflective surface reflects heat rays exactly in the same manner as it reflects light rays. Heat rays, however, unlike light rays, penetrate darkness, and are reflected in sealed dark places with equal effect, even though not visible to the eye. Not all sur-

faces which reflect light necessarily reflect heat.

A highly homogeneous reflective surface reflects or turns back 80% to 95% of the radiant heat that strikes it, depending upon the homogeneity and the thermal reflectivity of the surface. It entirely prevents this percentage of heat from entering the material in the slightest degree.

### Principle of Emissivity

A highly homogeneous thermal reflective surface emits, or throws off, heat much more slowly than a dark porous surface. In the case of the product, Milcor Silvercote, this refers primarily to heat which has been absorbed from the reverse side of the material. All colors, tones and hues have rated values in the emission of heat. Dead black absorbs and emits more heat than any other shade, and it is used as a standard and rated 100%. Under this same classification Milcor Silvercote is rated at 12%. In other words, heat which may be absorbed from the reverse side of Milcor Silvercote will be emitted from the Silvercote side only about one-eighth as fast as it would from a black surface.



The Metal Lath Side of MILCOR SILVERCOTE Showing How Plaster Is Applied in Just the Right Amount with No Waste

Thus the **reflective** type of insulation is decidedly the most scientific and efficient. An examination of the surface of Silvercote shows why this new insulating plaster base possesses **all** the required factors of an ideal insulation—why it meets all tests of heat insulation, moisture resistance and durability.

Consequently the uses of Milcor Silvercote Insulating Plaster Base are practically unlimited.

### The Construction of Milcor Silvercote

#### The Insulating Medium—Silvercote

The surface of Silvercote consists of a mineral, homogeneous pigment, polished into a silver-like sheen which reflects radiant heat and establishes exceptional insulation values. The surface possesses the following essential properties:

1. The surface is mineral and will not oxidize or corrode.
2. The surface is waterproof and cannot absorb moisture.
3. The surface is impervious to air filtration and non-conductive to electrical or thermal energy.
4. The surface is verminproof.
5. The surface is not affected by alkalis contained in plaster or by any of the acids or gases encountered in the customary uses of thermal insulation.



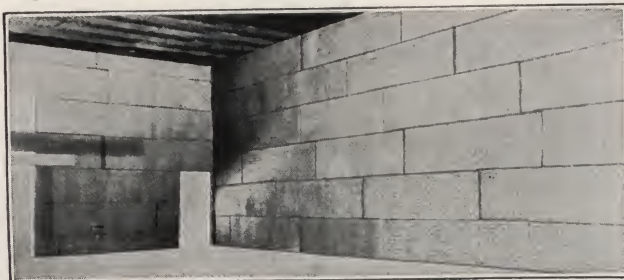
Milcor Silvercote comes in sheets which are easy to handle. The lath is light and strong, yet pliable.



Milcor Silvercote may be quickly cut or shaped to fit door and window openings.



Nailing Milcor Silvercote to wood studs is a rapid operation.



Application of Milcor Silvercote with edges of lath over-lapping is shown above.



Plaster is easily applied to Milcor Silvercote. The mesh assures a perfect bond and the plaster is embedded in the lath completely.

This surface layer of 47-lb. bleached Kraft base is attached to a 90-lb. Kraft by a layer of asphaltum. This duplex moisture-proof product is then attached to Milcor metal lath by staples.

#### The Plaster Base—Milcor Metal Lath

This base has long been recognized by architect and trade as the most efficient and satisfactory plaster base. Plaster on a base of Milcor Metal Lath is held by a never-let-go grip of steel. Through the strong, rigid network of this fine metal lath, the soft mortar oozes and then hardens into myriads of adamantine "fingers" that permanently lock every inch of walls and ceilings to the lath. Plaster thus reinforced can't loosen or crack. It retains its original beauty, protects against fire, and remains safe permanently.

Milcor Silvercote possesses all of the required factors of an ideal reflective insulation combined with the known values of metal lath as a plastering base. The reflective type is the most efficient and scientific type of insulation. The Silvercote process of reflective insulation is the most practical and durable of this type. That combined with the unquestioned value of metal lath as a plastering base attached thereto, gives Milcor Silvercote a standing in the insulation field above all others.

## MILCOR Silvercote Meets All Requirements

# The 10 Superior Features of MILCOR Silvercote

## 1. Silvercote Reflective Insulation

Provides more permanent insulation value than any other material known.

## 2. Will Not Oxidize or Corrode

As will ordinary metallic insulation because it consists of a brilliant mineral pigment with an oxide base.

## 3. Moisture-proof, Water-proof, Vermin-proof

The absorption of moisture greatly reduces insulation value. Silvercote cannot absorb moisture.

## 4. Sheet Size

24 in. by 96 in. Insulation has margin on two sides so metal lath can be lapped.

## 5. Meets All Tests

The only combination known which effectively meets all tests for plaster base and insulation.

## 6. Milcor Metal Lath

Recognized by Architect and Trade alike as the far-superior Plaster Base.

## 7. Galvanized

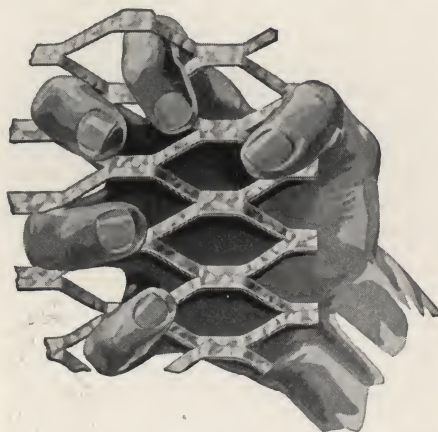
For lasting strength. All Milcor Silvercote furnished with Galvanized Metal Lath—for both interior and exterior installation.

## 8. Staples

Lath attached to insulation by staples with ends **away** from the plaster.

## 9. Plaster

Correct amount of plaster used—but no waste. Automatically back-plasters, assures perfect bond.



## 10. One Operation

Lath and Insulation applied in one operation (cost of one operation saved).

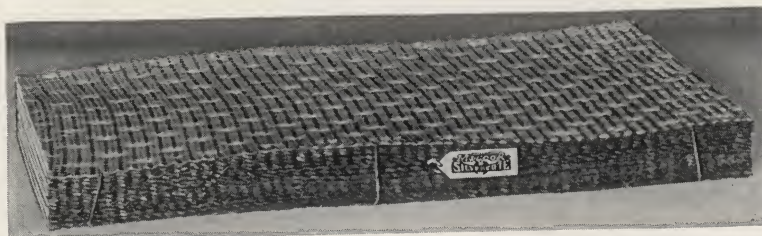
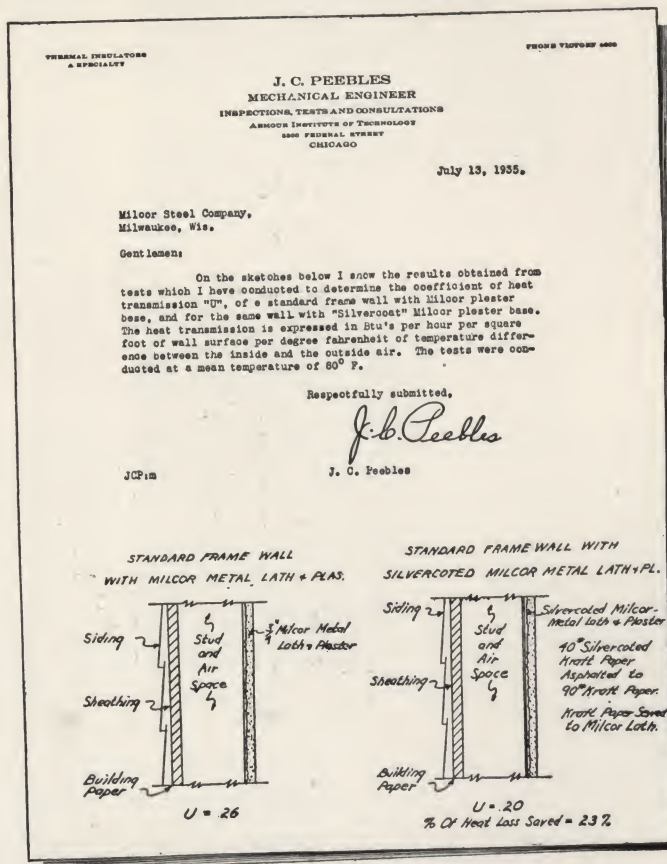
## Milcor Silvercote Insures Triple Cost Savings

The user of Milcor Silvercote saves—not double, but triple! It is so easy to apply that applicators prefer it to most every other type of plaster base. But the big saving comes in that both plaster base and insulation are applied in one operation, as easily as either is applied separately. Add to this the great saving in plaster because there can be no waste and the extremely low price of the material. The result is an economy in construction that cannot be equalled.

## Recognized Tests of Milcor Silvercote

Tests made by Professor J. C. Peebles of the Armour Institute of Technology are accepted throughout the insulation field as the most scientific and impartial available. In the accompanying letter Professor Peebles shows the percentage of heat loss saved through the use of Silvercote.

Tests were made of exactly the same construction with and without Silvercote applied to metal lath.



Milcor Silvercote comes in convenient bundles ready for use. Regular size sheets are 24x96 in., 1 1/4 sq. yds. each, packed nine sheets, 16 sq. yds. to the bundle

## Weight of Milcor Silvercote

Weight—337 lbs. per 1000 sq. ft. Bundled 10 sheets, 24x97 in., 160 sq. ft. to the bundle.

Shipped F.O.B. Milwaukee, with freight allowed to destination.

# Comparative Examples of Insulation Value

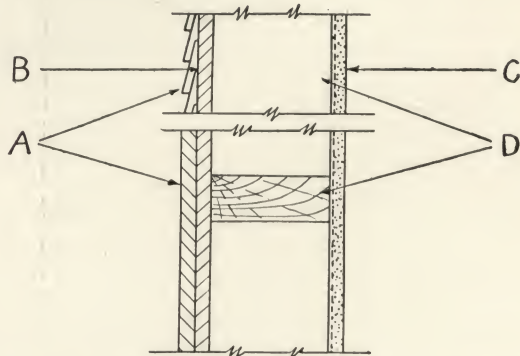
Showing Percentage of Heat Loss Saved  
in Various Types of Construction with

This series of charts give the "U" value or co-efficient of transmission on various types of construction without insulation and for the same type of construction insulated with MILCOR SILVERCOTE. The "U" value represents the number of B. T. U.'s transmitted in one hour



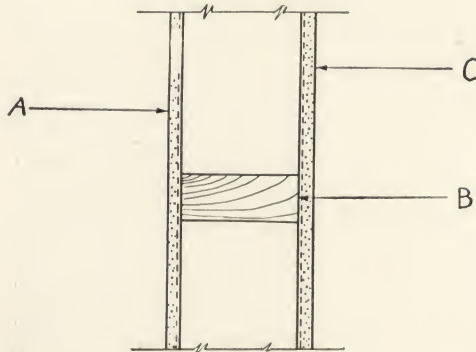
through each square foot of wall for each degree of Fahrenheit difference in temperature between inside and outside surfaces.

These charts also show the percentage of heat loss saved by the use of MILCOR SILVERCOTE.



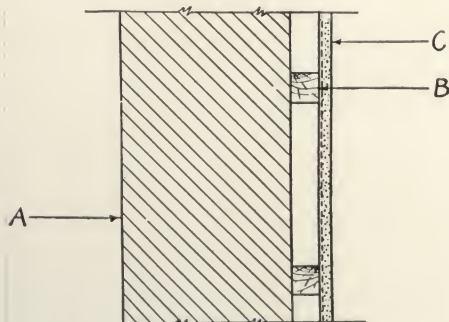
**Standard Frame Wall**

A. Siding, Shingles or Clapboards  
B. Sheathing  
C. Metal Lath and Plaster  
D. Studs  
Overall conductance with plain metal lath.....U: .26 B.T.U.  
Overall conductance with Milcor Silvercote.....U: .20 B.T.U.  
Percentage of heat loss saved: 23%



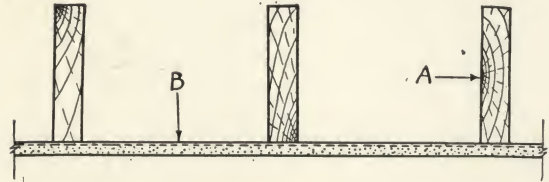
**Stucco on Stud Wall**

A. 1" Stucco on Milcor base  
B. 3-3/4" Studs  
C. Metal lath and plaster  
Overall conductance of wall with plain metal lath.....U: .49 B.T.U.  
Overall conductance of wall with Milcor Silvercote (both sides).....U: .23 B.T.U.  
Percentage of heat loss saved: 53%



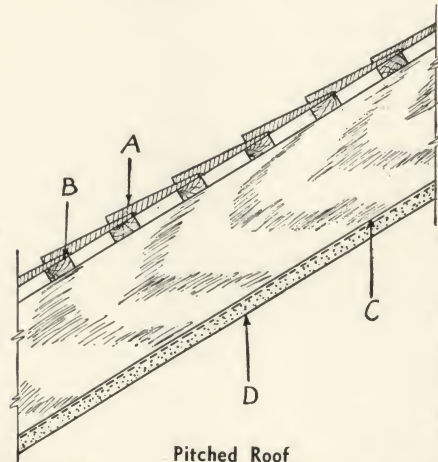
**Masonry Wall**

A. Solid brick wall, 8"  
B. 3/4" Furring strips  
C. Metal lath and plaster  
Overall conductance with plain metal lath.....U: .32 B.T.U.  
Overall conductance with Milcor Silvercote.....U: .23 B.T.U.  
Percentage of heat loss saved: 28%



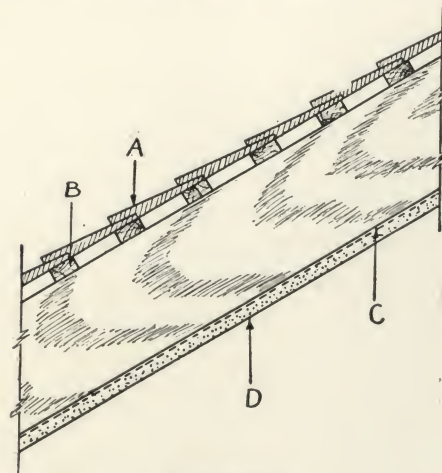
**Wood Flooring**

A. Joists, no flooring  
B. Metal lath and plaster  
Overall conductance with plain metal lath.....U: .69 B.T.U.  
Overall conductance with Milcor Silvercote.....U: .38 B.T.U.  
Percentage of heat loss saved: 45%



**Pitched Roof**

A. Wood shingles  
B. Nailing strips  
C. Rafters  
D. Metal lath and plaster  
Overall conductance with plain metal lath.....U: .30 B.T.U.  
Overall conductance with Milcor Silvercote.....U: .22 B.T.U.  
Percentage of heat loss saved: 27%



**Pitched Roof**

A. Composition or asphalt shingles  
B. Nailing strips  
C. Rafters  
D. Metal lath and plaster  
Overall conductance with plain metal lath.....U: .37 B.T.U.  
Overall conductance with Milcor Silvercote.....U: .26 B.T.U.  
Percentage of heat loss saved: 30%



# MILCOR MANUAL

**FIREPROOF BUILDING PRODUCTS**

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PRESERVATION  
TECHNOLOGY,  
INTERNATIONAL

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